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chemically modified, can contain deoxyribonucleotides, and can be chemically synthesised, expressed from a vector or enzymatically synthesised. Expressed from a vector or enzymatically cynthesised. The invention also relates to kits for the in vitro or in vivo delivery of siNA; conjugates and/or complexes of siNA; and vectors that express siNA. The siNAs are used to modulate expression of the TNF gene in cells, tissue explants or organisms (e.g., by ex vivo gene therapy), or in grafts and transplants for the treatment of a variety of conditions. The TNF siNAs have antibacterial, immunosuppressive, antirheumatic, antiarthritic, anti-HIV, antipsoriatic and antirheumatic, antiarthritic, anti-HIV, antipsoriatic and autoimmune diseases. The siNAs are also useful for drug screening, diagnosis, therapeutic target identification and validation, genetic engineering, pharmacogenomics, studying gene function, and gene mapping (e.g., of single nucleotide polymorphisms). The present sequence represents a chemically modified siRNA targeted to the human TNF mRNA transcript.
                                            Best Local Similarity
Matches 17; Conserv
                                                                                              Query Match
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11-MAR-2002; 2
06-JUN-2002; 2
29-AUG-2002; 2
05-SEP-2002; 2
09-SEP-2002; 2
28-NOV-2002; 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RNA interference. The sinhs may or may not comprise ribonucleotides ar may be double or single stranded. They further comprise sense and antisense regions, or alternatively are assemble from a sense oligonucleotide and an antisense oligonucleotide. Specifically, the sinclude short interfering RNA (sirNA), double-stranded RNA, micro-RNA (miRNA) and short hairpin RNA (shrNA). The sinhs can be unmodified or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New short interfering nucleic acid, useful e.g. fo diagnosis of septic shock or rheumatoid arthritis, expression of the tumor necrosis factor gene.
                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to short interfering nucleic acids (siNA) which downregulate expression of the human tumour necrosis factor (TNF) genu
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2002US-0363124P.
2002US-0386782P.
2002US-0406784P.
2002US-0408378P.
2002US-0409293P.
2002US-0429359P.
2003US-0440129P.
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                                               Conservative
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/note= "inverted deoxy abasic"
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                                                                 0.3%;
                                                                                                                                             9 C; 2 G; 2 T; 7 U; 2 Other;
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                                            Pred. No. 1:1e
0; Mismatches
                                                                 Score 15.2; DB 1;
Pred. No. 1.1e+03;
                                                                                              DB 1;
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                                                                                        Length 23;
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The invention relates to short interfering nucleic acids (siNA) which

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RESULT 1207
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ID ADG35088/c
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06-JUN-2002;
29-AUG-2002;
05-SEP-2002;
09-SEP-2002;
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15-JAN-
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                                                                                      New short interfering nucleic acid, useful e.g. fodiagnosis of septic shock or rheumatoid arthritis, expression of the tumor necrosis factor gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        pharmacogenomics; gene function analysis; gene mapping;
tumour necrosis factor; TNF; human; DNA-RNA hybrid; ss; antibacterial;
immunosuppressive; antirheumatic; antiarthritic; anti-HIV; antipsoriat
antiinflammatory; septic shock; rheumatoid arthritis; HIV/AIDS;
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2002US-0386782P.

2002US-0406784P.

2002US-0408378P.

2002US-0409293P.

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2002US-0409293P.

2003US-0440129P.
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/mod_base= OTHER
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e= "2'-deoxy-2'-fluoro pyrimidine bases (U and
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                                                                                                                                      for treatment
                                                                                                                   downregulates
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RESULT 1208
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Matches 17
20-FEB-2002; 2
11-MAR-2002; 2
06-JUN-2002; 2
29-AUG-2002; 2
05-SEP-2002; 2
09-SEP-2002; 2
28-NOV-2002; 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RNA interference; short interfering nucleic acid; siNA; short interfering RNA; siRNA; double-stranded RNA, micro-RNA; miRNA; short hairpin RNA, shRNA; expression modulation; gene therapy; drug screening; diagnosis; therapeutic target identification; pharmacogenomics; gene function analysis; gene mapping; tumour necrosis factor; TNF; human; DNA-RNA, hybrid; ss; antibacterial; immunosuppressive; antirheumatic; antiarthritic; anti-HIV; antipsoriatic; antinflammatory; septic shock; rheumatoid arthritis; HIV/AIDS; necrosistics; shock; rheumatoid arthritis; HIV/AIDS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    downregulate expression of the human tumour necrosis factor (TNF) gene by RNA interference. The siNAs may or may not comprise ribonucleotides and may be double or single stranded. They further comprise sense and antisense regions, or alternatively are assembled from a sense oligonucleotide and an antisense oligonucleotide. Specifically, the siNAs include short interfering RNA (siRNA), double-stranded RNA, micro-RNA (miRNA) and short hairpin RNA (shRNA). The siNAs can be unmodified or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human TNF sinA oligonucleotide SEQ ID NO:424.
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                                                         ; 2002US-0358580P.
; 2002US-0363124P.
; 2002US-0386782P.
; 2002US-0406784P.
; 2002US-0408378P.
; 2002US-0408378P.
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   2002US-0429359P.
2003US-0440129P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 15.2;
Pred. No. 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ç;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1.1e+03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 23
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chemically synthesised, expressed from a vector or enzymatically synthesised. The invention also relates to kits for the in vitro or in converted to the invention also relates to kits for the invitro or in the five delivery of siNA; conjugates and/or complexes of siNA; and vectors that express siNA. The siNAs are used to modulate expression of the TNF gene in cells, tissue explants or organisms (e.g., by ex vivo gene therapy), or in grafts and transplants for the treatment of a variety of conditions. The TNF siNAs have antibacterial, immunosuppressive, antirheumatic, antiarthritic, anti-HIV, antipsoriatic and antirheumatic, antiarthritic, anti-HIV, antipsoriatic and antirheumatic activities. They may be used for treating septic shock, rheumatoid arthritis, HIV/AIDS, psoriasis, inflammation and autoimmune diseases. The siNAs are also useful for drug screening, diagnosis, therapeutic target identification and validation, genetic engineering, pharmacogenomics, studying gene function, and gene mapping (e.g., of single nucleotide polymorphisms). The present sequence represents a human
                                                                                                                                                                                                                                                                                                                                                                                                                                           RNA interference. The siNAs may or may not comprise ribonucleotides and may be double or single stranded. They further comprise ribonucleotides and antisense regions, or alternatively are assembled from a sense and coligonucleotide and an antisense oligonucleotide. Specifically, the siNAs include short interfering RNA (siRNA), double-stranded RNA, micro-RNA (miRNA) and short hairpin RNA (siRNA). The siNAs can be unmodified, can contain deoxyribonucleotides, and can be chemically synthesised, expressed from a vector or anymentically.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New short interfering nucleic acid, useful e.g. for diagnosis of septic shock or rheumatoid arthritis, expression of the tumor necrosis factor gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention relates to short interfering nucleic acids (siNA) which downregulate expression of the human tumour necrosis factor (TNF) gene
                                                    TNF transcript target sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (RIBO-) RIBOZYME PHARM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3; SEQ ID NO 424; 141pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   for treatment and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      downregulates
                                                                                 ping (e.g., of
represents a human
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밁 Ś Query Match Best Local (Matches Sequence 1602 AAGGAGAAGATCCTGCGGAA 1621 23 AAGGAGAAGAGGCTGAGGAA 4 Similarity 23 BP; 1 A; 9 C; 2 G; 0 T; Conservative 0.3%; <u>,</u> Score Pred. Mismatches 15.2; No. 1 ŏ. .1e+03; DB 1; Length Indels 23; 0, Gaps

0

11 U; 0 Other;

ADG29617 standard; RNA; 23 ₽P

26-FEB-2004

(first entry)

RESULT 1209
ADG29617/c
ID ADG2961
XX ADG2016
XX ADG20016
XX AD double-stranded short interfering nucleic acid; siNA; antiarteriosclerotic; neuroprotective; nootropic; antiparkinson: anticonvulsant; pulmonary disease; restenosis; atherosclerosis; alzheimer's; Parkinson's; epilepsy; dementia; huntington's; Alzheimer's; Parkinson's; epilepsy; terset; ss; TNF. 20-FEB-2002; 2002US-0358580P 20-FEB-2003; 2003WO-US005028. Unidentified TNF siNA-target RNA - SEQ ID 183. antiparkinsonian;

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ADG30322/c
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Best Local S
Matches 17
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06-JUN-2002; 2002US-0386782P.
29-AUG-2002; 2002US-0406784P.
05-SEP-2002; 2002US-0408378P.
09-SEP-2002; 2002US-0409293P.
15-JAN-2003; 2003US-0440129P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        target gene and therefore in the treatment of any disease or condition that responds to modulation of gene expression or activity in a cell, tissue or organism. The disease or condition may include pulmonary disease such as restenosis, atherosclerosis, Alzheimer's disease, Parkinson's disease, epilepsy, dementia, huntington's disease or amyotrophic lateral sclerosis. Furthermore, the siNA may be utilised for gene therapy applications. The current sequence is that of the siNA target DNA of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to a double-stranded short interfering nucleic acid (siNA) molecule that down-regulates expression of an endogenous mammalian target gene comprising one or more chemical modifications and each strand of the double-stranded sNA comprises about 21 nucleotides. The siNA of the invention demonstrates antiarteriosclerotic, neuroprotective, nootropic, antiparkinsonian and anticonvulsant activities and may be useful for down-regulating the expression of an endogenous mammalian
                                                                                                                                                      antiarteriosclerotic; neuroprotective; nootropic; antiparkinsonian; anticonvulsant; pulmonary spileses; tetnosis; anticrosis; harkinson's; epileses; dementia; huntington's; harkinson's; epileses; dementia; huntington's; amyotrophic lateral sclerosis; gene therapy; ss; DNA-RNA hybrid; TN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New double-stranded short interfering nucleic acid molecule, useful for down-regulating the expression of an endogenous mammalian target gene of treating diseases that respond to modulation of gene expression or
             20-FEB-2003; 2003WO-US005028
                                              12-SEP-2003
                                                                             WO2003074654-A2
                                                                                                                          Unidentified
                                                                                                                                                                                                                     double-stranded short
                                                                                                                                                                                                                                                   TNF-targeted sina DNA-RNA hybrid - SEQ ID 888.
                                                                                                                                                                                                                                                                                                                                                  ADG30322
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                1602 AAGGAGAAGATCCTGCGGAA 1621
                                                                                                                                                                                                                                                                                                                                                                                                                                  23
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s. Usman N,
                                                                                                                                                                                                                                                                                                                                                  standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                  AAGGAGAAGAGGCTGAGGAA 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BP; 1 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                     (first entry)
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                                                                                                                                                                                                                                                                                                                                                  RNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9 C; 2 G; 0 T; 11 U;
                                                                                                                                                                                                                      interfering nucleic acid;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 15.2;
Pred. No. 1.
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                                                                                                                                                                                                                      SiNA;
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20-FEB-2003; 2003WO-US005028

12-SEP-2003

Alzheimer's; Parkin amyotrophic lateral

sclerosis;

gene therapy; ss;

ntington's; DNA-RNA hybrid; IKKg

antiparkinsonian;

Synthetic Unidentified

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11-MAR-2002; 2002US-0363124P.
06-JUN-2002; 2002US-0386782P.
29-AUG-2002; 2002US-0406784P.
05-SEP-2002; 2002US-0408378P.
09-SEP-2002; 2002US-0408378P.
15-JAN-2003; 2003US-0440129P.
                                                                                                                                                              double-stranded short interfering nucleic acid; siNA; dntiarteriosclerotic; neuroprotective; nootropic; antiparkinson anticonvulsant; pulmonary disease; restenosis; atherosclerosis; Alzheimer's; Parkinson's; epilepsy; dementia; huntington's;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Parkinson's disease, epilepsy, dementia, huntington's disease or amyotrophic lateral sclerosis. Furthermore, the siNA may be utilised for gene therapy applications. The current sequence is that of the siNA DNA-RNA hybrid of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 nootropic, antiparkinsonian and anticonvulsant activities and may be useful for down-regulating the expression of an endogenous mammalian target gene and therefore in the treatment of any disease or condition that responds to modulation of gene expression or activity in a cell, tissue or organism. The disease or condition may include pulmonary diseases such as restenosis, atherosclerosis, Altheimer's disease, partingon's disease englance and the second activity. Altheimer's disease,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to a double-stranded short interfering nucleic acid (siNA) molecule that down-regulates expression of an endogenous mammalian target gene comprising one or more chemical modifications and each strand of the double-stranded siNA comprises about 21 nucleotides. The siNA of the invention demonstrates antiarteriosclerotic, neuroprotective,
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Jamison S,
                                                                                                                                                                                                                                                                                  26-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 23 BP; 1 A; 9 C; 2 G; 2 T; 7 U; 2 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 24; SEQ ID NO 888; 593pp; English
                                                                                                                                                                                                                                                 IKKg-targeted siNA DNA-RNA hybrid - SEQ ID 612
                                                                                                                                                                                                                                                                                                                                                    ADG30046 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1602 AAGGAGAAGATCCTGCGGAA 1621
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                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                    RNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 15.2;
Pred. No. 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
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ADK95842/c
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Best Local S
Matches 15
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11-MAR-2002;
06-JUN-2002;
29-AUG-2002;
05-SEP-2002;
09-SEP-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            nootropic, antiparkinsonian and anticonvolsant activities and may be useful for down-regulating the expression of an endogenous mammalian that responds to modulation of gene expression or activity in a cell, tissue or organism. The disease or condition may include pulmonary disease such as restenosis, atherosclerosis, Alzheimer's disease, anyotrophic lateral sclerosis, Purthermore, the siNA may be utilised fogene therapy applications.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mcswiggen J
Jamison S,
                                                  08-MAR-2002; 2002JP-00064373
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to a double-stranded short interfering nucleic (siNA) molecule that down-regulates expression of an endogenous mamma target gene comprising one or more chemical modifications and each st of the double-stranded siNA comprises about 21 nucleotides. The siNA the invention demonstrates antiarteriosclerotic, neuroprotective,
                                                                                                    08-MAR-2002; 2002JP-00064373
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New double-stranded short interfering nucleic acid molecule, useful for down-regulating the expression of an endogenous mammalian target gene of treating diseases that respond to modulation of gene expression or
                                                                                                                                                                                                                                                             Synthetic
                                                                                                                                                                                                                                                                                                            human; single
                                                                                                                                                                                                                                                                                                                                                            Primer of
                                                                                                                                                                                                                                                                                                                                                                                                                 06-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADK95842
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(KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2003-731676/69
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15-JAN-2003;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   15;
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                                                                                                                                                                                                                                                                                                                                                            the
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; 2002US-0363124P.
; 2002US-0386782P.
; 2002US-0406784P.
; 2002US-0408378P.
; 2002US-0409293P.
; 2003US-0440129P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQ ID NO 612; 593pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Usman
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                                                                                                                                                                                                                                                                                                                                                            invention #1562.
                                                                                                                                                                                                                                                                                                          nucleotide polymorphism; SNP; ss; primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          THERAPEUTICS
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Pred. No. 1.1e+03;
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each strand
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Best Local Similarity
Matches 17; Conserv
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Best Local (
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                                                                                                                  The present invention relates to a polynucleotide isolated from a hungene and is useful for detecting a single nucleotide polymorphism in human gene or for diagnosing of disease. The invention enables the detection of a single nucleotide polymorphism in a human gene. The present sequence represents a primer of the invention.
                                                                                             Sequence 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention relates to a polynucleotide isolated from a gene and is useful for detecting a single nucleotide polymorphism human gene or for diagnosing of disease. The invention enables the detection of a single nucleotide polymorphism in a human gene. The present sequence represents a primer of the invention.
                                                                                                                                                                                              Claim
                                                                                                                                                                                                              fragment from another set or beyondered in human
                                                                                                                                                                                                                                Novel polynucleotide useful for PCR amplification along with two DNA fragment from another set of sequences, or for detecting single
                                                                                                                                                                                                                                                                                                                     08-MAR-2002; 2002JP-00064373.
                                                                                                                                                                                                                                                                                                                                             08-MAR-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                    Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                           human; single nucleotide polymorphism;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Primer of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           06-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 23 BP; 8 A; 8 C; 3 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Novel polynucleotide useful for PCR amplification along with two DNA fragment from another set of sequences, or for detecting single
                                                                                                                                                                                                                                                                      WPI; 2004-093977/10.
                                                                                                                                                                                                                                                                                                                                                                     16-SEP-2003
                                                                                                                                                                                                                                                                                                                                                                                            JP2003259875-A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim
                                                                                                                                                                                                                                                                                             (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3092 GGAGAAGCTCTATGACTTTG 3111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2004-093977/10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
               CCCCAAGAAACATCCCGCTG
                                                                                                                                                                                          SEQ ID NO 5596; 2627pp; Japanese.
CCTCAAGAAACTTCCCACTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GGTGAAGATCTGTGACTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         polymorphism in human gene.
                                              Conservative
                                                                                             BP; 8 A;
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                                                                                                                                                                                                                                                                                                                                             2002JP-00064373
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DNA;
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                                                                                             9 C;
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                                                                                             2 G; 4 T;
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                                            Score 15.2; DB 1
Pred. No. 1.1e+03
0; Mismatches
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U,
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                                                                                               0 Other;
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RESULT 1215
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ADL67220
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                                                                                                                                              Matches
                                                                                                                                                                                                                                       The invention provides novel human 14171 protein kinase polypeptides and polynucleotides. The methods and compositions of the present invention are useful for the diagnosis and/or treatment of diseases or conditions associated with aberrant expression or activity of a 14171 protein kinase such as cancer, immunological disorder, inflammation, heart failure, hypertension, atrial fibrillation, viral disorder and apoptotic disorder. The invention can also be used in chromosme mapping, tissue typing, predictive medicine, forensic biology and prognostic assays. The present sequence is small interfering RNA-DNA hybrid used to modulate the expression of human 14171 protein kinase. This sequence is used in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; 14171 protein kinase; cancer; immunological disorder; inflammation; heart failure; hypertension; atrial fibrillation; viral disorder; apoptotic disorder; chromosome mapping; tissue typing; predictive medicine; forensic biology; DNA-RNA hybrid; ss.
                ADM41140
                                                                                                                                                                                                  Sequence 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   misc_RNA
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                                                                                                                                                                                                                              exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                     Example 12; SEQ ID NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2004-226195/21.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Kapeller-Libermann
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (MILL-) MILLENNIUM PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11-FEB-2000; 2000US-0182096P.
12-FEB-2001; 2001US-00781882.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   10-SEP-2003; 2003US-00658904
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             siRNA-DNA hybrid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADL67220;
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                                                                                                                1533
                                                                                                                                           l Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                           71 protein kinase and nucleic acid, useful for diagnosing or g diseases with aberrant expression of the 14171 protein kinase, cancer, an immunological disorder, inflammation, heart failure
              standard; DNA;
                                                                                                                AAGAAAATCCTGCAGCTCAT 1552
                                                                                      AAGAACAUCCUGCACAUCAU 20
                                                                                                                                                                                                    BP;
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/label= RNA
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1. .21
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                                                                                                                                                                                                  6 C; 3 G; 2 T;
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                                                                                                                                                                                                                                                                                                                                                                                                     62pp; English.
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                                                                                                                                                        Score 15.2;
Pred. No. 1
                                                                                                                                           Mismatches
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                                                                                                                                                                                                    0 Other;
                                                                                                                                                                      DB 1; Length 23;
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RESULT 1216 ADP20809

ADP20809 standard; DNA; 23

ВP

ADP20809;

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that encodes and expresses an antigen of the avian pathogen, inserted cold into intergene region 1, 2 or 3 of the BamHI fragment of the THV genome. The nucleic acid especially encodes the VP2, VP3 or a combination of VP2, CP3 and 4, from infectious bursal disease (Camboro disease) virus; 9B, 9C, CC gh or gH plus gL of Marek disease or infectious laryngotracheitis viruses (C yirus; or VP1 (52 kD) or VP2 (24 kD) of the cytomegalovirus immediate-early (CC virus; or VP1 (52 kD) or VP2 (24 kD) of the cytomegalovirus immediate-early (CC virus; or VP1 (52 kD) or VP2 (24 kD) of the marek RNA1.8 promoter (especially used in combination with CMV-IE for increased levels of cytoression). The recombinant viruses of the invention are used to cytomegalovirus bronchitis, infectious bursal), Marek or Newcastle diseases, infectious bronchitis, infectious bursal), Marek or Newcastle diseases, infectious bronchitis, CC infectious bursal), Marek or Newcastle diseases, infectious bronchitis, CC infectious bursal), Marek or Newcastle diseases, infectious bronchitis, CC infectious bursal), Marek or Newcastle diseases, infectious bronchitis, CC infectious bursal), Marek or Newcastle diseases, infectious bronchitis, CC infectious bursal), Marek or Newcastle diseases, infectious bronchitis, CC infectious bursal), Marek or Newcastle diseases, infectious bronchitis, CC infectious bursal), Marek or Newcastle diseases, infectious bronchitis, CC infectious bursal), Marek or Newcastle diseases, infectious bronchitis, CC infectious bursal), Marek or Newcastle diseases, infectious bronchitis, CC infectious bursal), Marek or Newcastle diseases, infectious bronchitis, CC infectious bursal), Marek or Newcastle diseases, infectious bronchitis, CC infectious bursal, Marek or Newcastle diseases, infectious bronchitis, CC infectious bursal, Marek or Newcastle diseases, infectious bronchitis, CC infectious bursal, Marek or Newcastle diseases, infectious bronchitis, CC infectious bursal, Marek or Newcastle diseases, infectious bronchitis, CC infectious b
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The specification describes the use of a recombinant turkey herpes viru (THV) for production of live, recombinant avian vaccines, intended for vaccination in ovo, of day-old chicks, or of adults to protect against avian pathogen. The recombinant THV includes at least one nucleic acid avian pathogen.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Use of a recombinant turkey herpes virus (HVT) with an sequence inserted into an intergene region, to prepare preventing e.g. Marek or Gumboro disease in poultry.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    30-DEC-1994;
28-DEC-1995;
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                                                                                                                                              Sequence 23
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Audonnet J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADM41140;
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         2864 AAAGCTGAAGCCCATTATCT 2883
                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EL147 used to amplify a 715bp
                                                                                                                                                BP;
                                                      Conservative
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95EP-00402970
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                                                                                                                                                A; 6 C; 6
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                                                                                                                                                G; 6 T; 0 U;
                                                                         Score 15.2; DB 1
Pred. No. 1.1e+03
                                                      Mismatches
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                                                                                                                                                0 Other;
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                                                                                                  DB 1; Length 23;
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                                                        Indels
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RESULT 1217
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XX AC ADH7051
XX 25-MAR-
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                                                                                                                                                                                                                                                                                                                                                                                The invention relates to a pharmaceutical composition comprising a PRL-1 CC homologous protein or/and its functional fragment, a nucleic acid composure protein and/or a modulator/effector of the nucleic composition is useful for the manufacture of an agent for detecting cor/and verifying, for the treatment, alleviation and/or prevention of composition is useful for the manufacture of an agent for detecting crowledge or/and verifying, for the treatment, alleviation and/or prevention of cor/and verifying, for the treatment, including metabolic syndrome, obesity cor/and diabetes, as well as related disorders such as eating disorder, cor/and diabetes, as well as related disorders such as eating disorder, cor/and diabetes, as well as related disorders such as eating disorder, cor/and diabetes, oscenarthritis, gallstones, or liver fibrosis, in cells, cor/and metabolic syndrome for coll masses, organs and/or subjects in vivo or in vitro. The nucleic acid conclude and polypeptide are useful for the manufacture of a medicament controlling the function of a gene or/and metabolic syndrome for controlling the function of a span-or/and metabolic syndrome for controlling the function of a pRL-1 homologous polypeptide, for controlling substances capable of interacting with a PRL-1 homologous polypeptide, for collentifying substances capable of interacting with a PRL-1 homologous conversion and for the production of a non-human transgenic animal conversion of a medication of a non-human transgenic animal conversion of a medication of the mouse protein tyrosine phosphatase type IVA member 3 i.e. Prl-3 gene for gene expression analysis.
                                                                                                                                                                                                                                                                Query Match
Best Local S
Matches 17
    25-MAR-2004
                                          ADH70518;
                                                                                  ADH70518
                                                                                                                                                                                                                                                                                                                                                   Sequence 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New pharmaceutical composition comprising a PRL-1 homologous protein nucleic acid, and carriers, diluents or/and additives, useful for treating obesity, hyperlipidemia, osteoarthritis, cell masses.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              obesity; diabetes; eating disorder; cachexia; hypertension; coronary heart disease; hypercholesterolemia; dyslipidemia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ss; probe; metabolic; anorectic; antilipemic; cardiant; osteopathic; antiarthritic; antiinflammatory; cytostatic; gene therapy; protein tyrosine phosphatase; metabolic disease; metabolic syndrome;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      17-JUN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO2004050117-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           osteoarthritis; gallstones; liver fibrosis; transgenic animal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 09-SEP-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 4A; SEQ ID NO 16; 89pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      03-DEC-2002; 2002EP-00026921
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              03-DEC-2003; 2003WO-EP013655
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                                                                                                                                                                                                             3158 CCTCACCAGCCACGACCCCA 3177
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17; Conserv
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                                                                                  standard;
                                                                                                                                                                                      CCTCATCACCCACAACCCCA 21
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                                                                                                                                                                                                                                                                                                                                                 BP; 6 A; 13 C; 1 G;
                                                                                                                                                                                                                                                                    Conservative
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(first
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                                                                                  DNA;
                                                                                                                                                                                                                                                                                     0.3%;
  entry)
                                                                                    15
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                                                                                  ВP
                                                                                                                                                                                                                                                                  0;
                                                                                                                                                                                                                                                                                     Score 15.2;
Pred. No. 1.
                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                 3 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                     .1e+03;
                                                                                                                                                                                                                                                                                                            DΒ
                                                                                                                                                                                                                                                                                                        Length 23;
                                                                                                                                                                                                                                                                    Indels
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밁 δ

281

TCTCTCTCTCTCTCT

Query Match Best Local (Matches

Local Similarity

0.3%;

Score 15; Pred. No.

DB 1; I 5.9e+02;

Length Indels

Conservative

0;

Mismatches

0 -Gaps

0

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The invention relates to a kit for diagnosing and treating T-cell CC associated diseases which comprises a panel of nucleic acid primers gpecifically priming and allowing amplification of each Vbeta gene, CC vbetaRNA or cDNA. The kit is useful for diagnosing organ transplant crejection and diagnosing and treating T-cell associated diseases, including autoimmune diseases, degenerative nervous system diseases, complete compl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         hypersensitivity disease; infectious disease; neoplastic disease; haddison's disease; atrophic gastritis, addison's disease; atrophic gastritis, degenerative nervous system disease; multiple sclerosis; degenerative nervous system disease; multiple sclerosis; hypersensitivity disease; type I hypersensitivity; disease; type I hypersensitivity; Goodpasture's syndrome; allergy; type II hypersensitivity; Goodpasture's syndrome; type IV hypersensitivity; leprosy; infections disease; viral infection; filaria; bacterial infection; Mycobacterium; neoplastic disease; filaria; bacterial infection; Mycobacterium; neoplastic disease; lymphoproliferative disease; leukaemia; lymphoma; cancer; brain cancer;
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Kit for diagnozing and treating T-cell associated diseases e.g. autoimmune, degenerative nervous system and infectious disease, comprises nucleic acid primers specifically priming and allowing amplification of a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure; SEQ ID NO 712; 164pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human
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19-SEP-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US2002150891-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       HOOD/) HOOD L
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     BP; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             dø.
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95US-00531241.
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     A.
7 C; 0 G;
8 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             #308.
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neoplastic diseas
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RESULT 1219 ADH70523/c

ADH70523 standard; DNA; 15

ВÞ

윰. Ś

15

Matches : :

15;

Conservative

0

Mismatches

0

Indels

0

Gaps

0

281 TCTCTCTCTCTCTCT

295

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RESULT 1218
ADH70246/c
                                 cc including autoimmune diseases, degenerative nervous system diseases, cc graft versus host disease, hypersensitivity diseases, infectious diseases cand neoplastic diseases. Autoimmune diseases include Addison's disease, cc and neoplastic diseases. Autoimmune diseases include Madison's disease, cc atrophic gastritis. Degenerative nervous system diseases include multiple cs clerosis and Alzheimer's disease. Hypersensitivity diseases include Type II hypersensitivities such as contact with allergens that lead to compare the compared to the state of the such as contact with allergens that lead to compared the compared to the such as those present in Cc Goodpasture's syndrome and Type II hypersensitivities such as those caused by ciruses such as HIV, fungal infections such as those caused by caused by viruses such as HIV, fungal infections such as those caused by che yeast genus Candida, parasitic infections such as those caused by che yeast genus Candida, parasitic infections such as those caused by che yeast genus Candida, parasitic infections such as those caused by che yeast genus Candida, parasitic infections such as those caused by che yeast genus Candida, parasitic infections such as those caused by che yeast genus Candida, parasitic infections such as those caused by che yeast genus Candida, parasitic infections such as those caused by che yeast genus Candida, parasitic infections such as those caused by che yeast genus Candida, parasitic infections such as those caused by che yeast genus Candida, parasitic infections such as those caused by che yeast genus Candida, parasitic infections such as those caused by che yeast genus caused by che yeast genu
                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to a kit for diagnosing and treating T-cell associated diseases which comprises a panel of nucleic acid primers specifically priming and allowing amplification of each vbeta gene, vbetaRNA or CDNA. The kit is useful for diagnosing organ transplant rejection and diagnosing and treating T-cell associated diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Addison's disease; atrophic gastritis; degenerative nervous system disease; multiple sclerosis; degenerative nervous system disease; multiple sclerosis; Alzheimer's disease; hypersensitivity disease; type I hypersensitivity; decodpasture's syndrome; allergy; type II hypersensitivity; Goodpasture's syndrome; type IV hypersensitivity; leprosy; infections disease; viral infection; HIV; fungal infection; Candida; parasitic infection; schistosome; filaria; bacterial infection; Mycobacterium; neoplastic disease; lymphoproliferative disease; leukaemmia; lymphoma; cancer; brain cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Kit for diagnozing and treating T-cell associated diseases e.g. autoimmune, degenerative nervous system and infectious disease, comprises nucleic acid primers specifically priming and allowing amplification of a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  05-MAR-1999;
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(ROWE/)
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19-SEP-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    17-OCT-2002
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hypersensitivity disease; infectious disease; neoplastic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    T-cell
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQ ID
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    94US-00309335.
95US-00531241.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   440;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                164pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         #36.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; autoimmune disc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               disease;
ost disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            disease;
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Addison's disease; atrophic gastritis; degenerative nervous system disease; withink a sclerosis; degenerative nervous system disease; disease; type I hypersensitivity disease; type I hypersensitivity; Goodpasture's syndrome; allergy; type II hypersensitivity; Goodpasture's syndrome; type IV hypersensitivity; leprosy; infectious disease; viral infection; type IV hypersensitivity; leprosy; infectious disease; viral infection; HIV; fungal infection; Candida; parasitic infection; schistosome; filaria; bacterial infection; Mycobacterium; neoplastic disease; lymphoproliferative disease; leukaemia; lymphoma; cancer; brain cancer;

degenerative nervous system disease; graft versus host disease; hypersensitivity disease; infectious disease; neoplastic diseas

Vbeta; autoimmune disease;

disease;

human; T-cell associated disease;

Human Vbeta

gene repeat sequence

#313.

25-MAR-2004

(first entry)

(HOOD/) HOOD L E. (ROWE/) ROWEN L.

05-MAR-1999;

17-OCT-2002

Homo sapiens breast cancer;

19-SEP-1994; 19-SEP-1995;

94US-00309335 95US-00531241 9908-00263959

Kit for diagnozing and treating T-cell associated diseases e.g. autoimmune, degenerative nervous system and infectious disease, comprises nucleic acid primers specifically priming and allowing amplification of a

WPI; 2004-059052/06

Hood LE,

Rowen L;

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CC associated diseases which comprises a panel of nucleic acid primers compecifically priming and allowing amplification of each Vbeta gene, by pecifically priming and allowing amplification of each Vbeta gene, compectation of companity of the panel of the provided priming and composing organ transplant compectation and diagnosing and treating T-cell associated diseases compectation and diseases, degenerative nervous system diseases, compectation of the passes of the passes
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; SEQ ID NO 717; 164pp; English
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Best Local Similarity

100.0%;

Score 15; DB 1; I Pred. No. 5.9e+02;

Length 15;

0.3%;

Query Match

Sequence

15

BP; 8 A;

0 C; 7 G; 0 T; 0 U;

0 Other;

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RESULT 1220
AAQ30335
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Best Local S
Matches 15
      WO9209705-A1
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07-DEC-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               such as leukaemias,
breast. The present
                                                                modified_base
                                                                                                                                                       modified_base
                                                                                                                                                                                       modified_base
                                                                                                                                                                                                                      modified_base
                                                                                                                                                                                                                                                                                modified_base
                                                                                                                                                                                                                                                                                                                                      Synthetic.
                                                                                                                                                                                                                                                                                                                                                           Herpes simplex; AIDS; modified; HIV; RSV; HPV; malignancy; hepatitis;
                                                                                                                                                                                                                                                                                                                                                                           Oligomer HER101 for forming triplex with HER target duplex
                                                                                                                                                                                                                                                                                                                                                                                                                 AAQ30335
                                                                                                                                                                                                                                                                                                                                                                                                                               AAQ30335
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                                                                                                                                                                                                                                                                                                                                                                                                                               standard; DNA; 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      refererererer 1
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/mod_base= OTHER
/note= "OTHER= N6 r
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/mod_base= OTHER
"OTHER= N6
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/mod_base= anthraquinone
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              lymphomas and cancers such as cancer of the brain, sequence represents a Vbeta gene repeat sequence.
                                                                                                                                                                                                                                                                                                                                                                                          entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0.3%;
                                                                       base= OTHER
e= "OTHER= N6
                                                                                                                                                                          _base= OTHER
                                                  base=
                                                                                                                                            base= OTHER
                                                                                                                                                                                                                                                          base= OTHER
- "OTHER= N6 methyl-8-oxo
                                                                                                                                                                                                                                                                                                  base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0 C; 7 G; 0 T; 0 U; 0 Other;
                                         "OTHER= N6 methyl-8-oxo
                                                                                                                                   "OTHER= N6
                                                                                                                                                                   "OTHER= N6
                                                                                                                      ω
                                                                                                                                                                                                                                                                                          "OTHER=
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Pred. No.
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                                                                                                                                   methyl-8-oxo
                                                                                                                                                                  methyl-8-oxo 2'
                                                                                                                                                                                                                                                                                         methyl-8-oxo
                                                                       methyl-8-oxo
                                                                                                      methyl-8-oxo
                                                                                                                                                                                               methyl-8-oxo
                                                                                                                                                                                                                              methyl-8-oxo
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                                                                                                                                   deoxyadenine"
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                                           deoxyadenine'
                                                                                                      deoxyadenine"
                                                                                                                                                                   deoxyadenine'
                                                                                                                                                                                                deoxyadenine'
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                                                                       deoxyadenine'
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                                                                                                                                                                                                                                                                                                                                                                                                                           The synthetic oligomer is capable of forming a triplex at physiological CC pH with a purine rich target sequence by coupling into the major groove of the duplex. The specific target sequence of this oligomer is the HER CC promoter duplex between positions -65 to -380 which contains a purine-rich region concentrated on one chain of the duplex. The oligomer, and CC characterised by specific DNA duplex targets, e.g. cytomegalovirus; HPV; HER; HIV, hepatitis B, herpes, malignant tumours and inflammation. The Ct without subjecting the test specimen to harsh conditions. The oligomer CC may contain an inverted polarity region formed from an o-xyloso dimer CC synthon. The linking gp. is o-xyloso (nucleotides have the 3 positions of xylose sugars linked via the o-xylene ring). Two nucleotides are coupled through a xylene residue to form the dimer synthon. This additional modification may render the oligomer stable to nuclease cativity. The oligomer is able to inhibit gene expression, as verified by in vitro systems. See also AAQ25452-25501 and AAQ30226-448. (Updated on CC 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       23-NOV-1990;
18-JAN-1991;
08-APR-1991;
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17-APR-1991;
17-APR-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New oligomers contg. modified bases -doublet in a DNA duplex, for treating herpes malignancy and inflammation.
                                                                                  nucleic acid
triple helix
                                                                                                                           Triple Helix forming oligomer for circular dichroism studies.
                                                                                                                                                         25-MAR-2003
05-AUG-1993
                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 16 BP; 9 A; 0 C; 0 G; 6 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 12; Page 68; 77pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11-JUN-1992
                                                                                                                                                                                                    AAQ40197;
                                                                                                                                                                                                                               AAQ40197 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  25-NOV-1991;
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                                                                                                                                                                                                                                                                                                                                                                               Local Similarity
                                                                                                                                                                                                                                                                                                                         4421 TAATATTAATAATAA 4435
                                                                                                                                                                                                                                                                                                                                                               15;
                                                                                                                                                                                                                                                                                                         TAATATTAATAA 15
                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                  probing; DNA probing; oligonucleotide probe; hybridisation; formation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Krawczyk S,
                                                                                                                                                         (first entry)
                                                                                                                                                                         (revised)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            91US-00683420.
91US-00686544.
91US-00686546.
91US-00686547.
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91US-00643382.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  91WO-US008811
                                                                                                                                                                                                                                 DNA; 16
                                                                                                                                                                                                                                                                                                                                                                               100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                Score 15;
Pred. No
                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                  No.
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                                                                                                                                                                                                                                                                                                                                                                               DB 1; Le
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Milligan J;
                                                                                                                                                                                                                                                                                                                                                                                            Length 16;
                                                                                                                                                                                                                                                                                                                                                                 Indels
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WO9307295-A1 Synthetic.

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RESULT 1222
AAQ40198/C
ID AAQ40198;

XX
AC AAQ40198;

XC AAQ40198;

XY
DT 25-MAR-2003 (revised)
DT 05-AUG-1993 (first entry)

XX
DE Triple Helix forming oligomes

XX
mucleic acid probing; DNA pro

XX
M 00307295-A1.

XX
PN W09307295-A1.

XX
PN W0930729
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       acid sequences. This sequence was used in a circular dichroism spectroscopy assay for detection of triple hellx formation. For sequence B254=1.45 * 10*4 /M/cm. (Updated on 25-MAR-2003 to correct PF field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Teo
                                                                                                                                                                  Formation of triple helix complexes of nucleic or preventing expression or function of target
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 acid sequences. This sequence was used in a circular dichro spectroscopy assay for detection of triple helix formation. sequence E254=9.2 * 10^4 /M/cm. (Updated on 25-MAR-2003 to field.) (Updated on 25-MAR-2003 to correct PF field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 07-OCT-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 16 BP; 0 A; 8 C; 0 G; 8 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 2; Page 47; 98pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Formation of triple helix complexes of nucleic acids - used or preventing expression or function of target nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 1993-134479/16.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (UYJO )
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Adams TH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     refererererer 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0.3%; Solitarity 100.0%; 1 Conservative 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        probing; DNA probing; oligonuclectide probe; hybridisation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     forming oligomer for circular dichroism studies
                                                                                                                                                                                                                                                                                                                                                                                                       91US-00772081
                                                                                                                                                                                                                                                                                                                                                                                                                                                    92WO-US008458
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 91US-00772081
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                                                                                                                                                                                                                                                                                    Arnold LJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Arnold LJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  295
                                                                                                                       English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 15;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
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6.5e+02;
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acid
                               to correct
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correct PN
                                                                                                                                                                    for detect
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                                                                                                                                                                                          detection
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         RESULT 1224
AAQ38289
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25-MAR-2003 13-JUL-1993 AAQ38289; AAQ38289

(revised) (first en

entry)

standard;

DNA;

16

ВP

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Best Local
                                  Matches
                                           Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best Local Similarity 100. Matches 15; Conservative
                                                                                     acid sequences. This sequence was used in a circular dichroism spectroscopy assay for detection of triple helix formation. For this sequence R254-8.5 \star 10.4 /M/cm. (Updated on 25-MAR-2003 to correct field.) (Updated on 25-MAR-2003 to correct PF field.)
                                                                      Sequence 16
                                                                                                                                                   Formation of triple helix complexes of nucleic acids - or preventing expression or function of target nucleic
                                                                                                                                                                               WPI; 1993-134479/16.
                                                                                                                                                                                                                                                                                                                  Synthetic.
                                                                                                                                                                                                                                                                                                                                  nucleic acid
triple helix
                                                                                                                                                                                                                                                                                                                                                                              25-MAR-2003
05-AUG-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 16
                                                                                                                                  Example
                                                                                                                                                                                                Tso P,
                                                                                                                                                                                                                                           07-OCT-1991;
                                                                                                                                                                                                                                                             05-OCT-1992;
                                                                                                                                                                                                                                                                               15-APR-1993.
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                                                                                                                                                                                                                                                                                                                                                              Triple Helix
                                                                                                                                                                                                                                                                                                                                                                                                          AAQ40199;
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                281 rerererererer
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N
                                  l Similarity
15; Conserv
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                                                                                                                                  2
                                                                                                                                                                                               Adams TH,
                                                                                                                                                                                                                                                                                                                                                                                                                          standard; DNA; 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TCTCTCTCTCTCT 1
                                                                                                                                 Page 47; 98pp;
                                                                     BP;
                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BP; 8 A;
                                                                                                                                                                                                                                                                                                                                            probing; DNA probing; oligonucleotide probe; hybridisation;
                                                                                                                                                                                                                                                                                                                                   formation.
                                                                                                                                                                                                                                                                                                                                                            forming oligomer
                                                                                                                                                                                                                                                                                                                                                                              (revised)
(first entry)
                                                                                                                                                                                                                                            91US-00772081
                                                                                                                                                                                                                                                             92WO-US008458
                                                                     0 A; 8 C; 0
                                                                                                                                                                                                Arnold
                                          100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 100.0%;
                                                     0.3%;
                295
16
                                                                                                                                  English.
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                                                                     G; 8 T; 0 U; 0 Other;
                                           Score 15;
Pred. No
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 15;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                               for circular dichroism
                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            T;
                                           NO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            u; 0
                                          DB 1; L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 1; Lo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Other;
                                                   Length 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 16;
                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                    used
acid
                                  0
                                                                                                                                                    for detection sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0
                                                                                                        For this
                                  Gaps
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                                                                                                PN
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ARESULT 1225
AAQ38290/c
ID AAQ3829
XX AAQ3829
XC AAQ3829
XC AAQ3829
XC Triple
XX Triple
XX Triple
XX Target;
XW Target;
XW express
XX Synthet
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XX WO93051
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Best Local Similarity
Matches 15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The sequences given in AAQ38289-91 were used to form triple helices with a target T7 Peoralen-derivatised MP-oligomer (see also AAQ38288). These sequences could be used as probes to detect the presence of a particular double stranded (ds) nucleotide sequence. They can also be used to prevent the expression or function of a selected ds sequence. They can be used in the development of antibacterial, anticancer and antiviral agents. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 16 BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New oligomers comprising purine base analogues - used to identify or prevent expression or function of nucleic acid by triple helix formation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Target; T7; expression;
                           Miller PS,
                                                                                                                                                                                                                                                                                                                       Synthetic.
                                                                                                                                                                                                                                                                                                                                                                    expression;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      25-MAR-2003
13-JUL-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAQ38290;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAQ38290 standard; DNA; 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO9305180-A1
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                                                                                                                       30-AUG-1991;
                                                                                                                                                                      27-AUG-1992;
                                                                                                                                                                                                                        18-MAR-1993
                                                                                                                                                                                                                                                                       WO9305180-A1
                                                                                                                                                                                                                                                                                                                                                                                          Target; T7;
                                                                                                                                                                                                                                                                                                                                                                                                                                       Triple helix forming oliomer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 1993-101000/12
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                                                                        (UYJO ) UNIV JOHNS HOPKINS
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                                                                                                                                                                                                                                                                                                                                                                    Psoralen-derivatised MP-oligomer; triple helix; probe; function; antibacterial; anticancer; antiviral; ss.
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used in
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New oligomers comprising purine base analogues - used to identify or prevent expression or function of nucleic acid by triple helix formation.
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           TCTCTCTCTCTCT 295
TCTCTCTCTCTCT 16
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ould be used as probes to detect the presence of a par
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                                                                                                                                                                                                                                                                                                                          Three sets of all-purine methylphosphonate oligonucleosides ("MP oligomers") and complementary ribboligonucleosides ("RNA oligomers") were examined for their ability to form triple helix complexes. (Set 1:G2100 and R39; Set 2:G2101 and R289; Set 3:G2106 and R84 - see AAQ68229-34). It was shown that all-purine MP oligomers contg. a 50:50 mixt. of adenines and guanines are capable of forming 2:1 MP:RNA triple stranded complexes with their complementary RNA oligomers. (Updated on 25-MAR-2003 to
                                                                                                                                                                                                                                                                                                                                                                                                                                  Detection, recognition, inhibition and alteration of single and double stranded target nucleic acid sequences - by formation of a triple helix structure using 2 oligomers which block translation.
                                                                                            25-MAR-2003
16-FEB-1995
                                                                                                                                                                                                                                                                                           Sequence 16 BP; 8 A; 0 C; 8 G; 0 T; 0 U; 0 Other;
                              Synthetic
                                                                        Triple helix
                                                                                                                            AAQ68247;
                                                                                                                                                                                                                                                                                                                                                                                                             Example 1; Page 29; 67pp; English.
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16-FEB-1995
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                                                                                                                                                 AAQ68247 standard;
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                                                  Methylphosphonate;
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                                                                                                                                                                                                                                                           Local
                                                                                                                                                                                                                           281 TCTCTCTCTCTCT
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                                                                                                                                                                                                                                                15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    methylphosphonate;
                                                                                                                                                                                                                                                                                                                  PN
                                                                                                                                                                                                                                                                                                                 complementary RNA oligomers. (Updated field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         methylphosphonate oligonucleoside
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Reynolds
                                                                                                                                                                                                                                                 Conservative
                                                                                            (revised)
(first en
                                                                       forming methylphosphonate oligomer 2100.
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(first entry)
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                                                  MP; triple helix; translation; oligonucleoside;
                                                                                                                                                  DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA;
                                                                                             entry)
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                                                                                                                                                                                                                                                                      Score
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                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                           15;
No.
                                                                                                                                                                                                                                                           6.5e+02;
                                                                                                                                                                                                                                                                      DB 1;
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                                                                                                                                                                                                                                                                      Length 16;
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WO9413326-A1

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AAQ68230
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Best Local S
Matches 15
Three sets of all-purine methylphosphonate oligonucleosides ("MP oligomers") and complementary ribooligonucleosides ("NN oligomers") examined for their ability to form triple helix complexes. (Set 1:G2: and R39; Set 2:G2101 and R289; Set 3:G2106 and R84 - see AAQ68229-34)
                                                                         Detection, recognition, inhibition and alteration of single and double stranded target nucleic acid sequences - by formation of a triple helistructure using 2 oligomers which block translation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Triple helix formation with 2:1 MP:RNA oligomers was thermal denaturation methods. Exemplary triple helix are given in AAQ68242-52. (Updated on 25-MAR-2003 to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Detection, recognition, inhibition and alteration of single and double stranded target nucleic acid sequences - by formation of a triple helistructure using 2 oligomers which block translation.
                                                                                                                                                                                                                                                                                 Synthetic
                                                                                                                                                                                                                                                                                                       oligonucleoside;
                                                                                                                                                                                                                                                                                                                                        All-purine
                                                                                                                                                                                                                                                                                                                                                              25-MAR-2003
16-FEB-1995
                                                                                                                                                                                                                                                                                                                                                                                                                     AAQ68230 standard; RNA; 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                      Example 1;
                                                                                                                        WPI; 1994-217542/26
                                                                                                                                                                                         08-DEC-1992;
                                                                                                                                                                                                              08-DEC-1993;
                                                                                                                                                                                                                                     23-JUN-1994.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  23-JUN-1994.
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                                                                                                                                                                    (GENT-) GENTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 281 TCTCTCTCTCTCT 295
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15; Conserv
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                                                                                                                                                                                                                                                                                                                   methylphosphonate;
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                                                                                                                                                                                                                                                                                                                                       ribooligonucleoside
                                                     Page 29; 67pp;
                                                                                                                                              Reynolds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BP; 8 A; 0 C; 8 G; 0 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                             (revised)
(first entry)
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                                                      English
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                                                                                                                                                                                                                                                                                                                                                                                                                     ВР
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 15;
Pred. No
                                                                                                                                                                                                                                                                                                                                         R39.
                                                                                                                                                                                                                                                                                                                   triple helix;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6.5e+02;
                                                                                       by formation of a triple helix
                                                                                                                                                                                                                                                                                                                   translation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     demonstrated with forming MP-oligome correct PN field.
see AAQ68229-34).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     a triple helix
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -oligomers
V field.)
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           1:G2100
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RESULT 1230
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AAV5488
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Best Local S
Matches 7
                        Oligomers ANV54880-83 were purified using the method of the invention. The specification describes a new process is for separating an oligomer with a selected nucleoside sequence from impurity oligomers with different sequences. It comprises normal phase column chromatography on a column with polyhydroxyethyl aspartamide, silica or hydrophobic silica as the support, where the hydrophobic silica has its silica component modified with an uncharged hydroxylated hydrophillic moiety other than cyclodextrin, including separation conditions so that the oligomer has a different retention time on the column than the impure one, provided that the desired oligomer differs from the impurity in nucleoside sequence by other than a thymine or uracil base. The method is used for the purification of desired oligomers from impurity oligomers based on properties that are incorporated into the desired oligomers during their manufacture. Purified oligomers can be used as hybridisation probes,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Oligomer purification using normal phase column chromatography separates the desired oligomers from impurity ones, based on sp characteristics of the desired oligomers introduced during their
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                was shown that all-purine MP oligomers contg. a 50:50 mixt. of and guanines are capable of forming 2:1 MP:RNA triple stranded with their complementary RNA oligomers. (Updated on 25-MAR-2003 correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   synthesis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Oligomer Genta 3 purified using the method of the invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 1998-530946/45
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 30-DEC-1993;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Separation; oligomer; normal phase column chromatography; purification;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAV54883 standard;
     amplification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (GENT-) GENTA INC.
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     primers and
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/note= "contains 2'-O-methyl pyrimidines
/note= "--~"
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1. .18
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Pred. No.
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     chemotherapeutic
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RESULT 1231
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ID AXX91064/c
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                                                                                                                                                                                                                                                                   The invention provides methods for preparing oligomers having phosphonate internucleosidyl linkages of a preselected chirality which hybridize to a target RNA sequence. The method of making comprises: (a) synthesizing a nucleoside dimer, trimer, or tetramer with racemic internucleosidyl phosphonate linkages; (b) purifying the racemic nucleoside to a chirally pure nucleoside; and (c) sequentially linking at least 2 of the chirally pure nucleosides to form a synthetic oligomer that is enriched for phosphonate internucleosidyl linkages of a preselected chirality and is complementary to an RNA target sequence. The methods are useful for providing chirally enriched synthetic oligomers. Rp chirally enriched synthetic oligomers with racemic all methylphosphonate internucleosidyl linkages. Sequences AXX91054-75 represent oligomers chemically synthesised using
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Oligomers made using chirally pure nucleoside dimers, trimers, tetramers with enhanced binding affinities.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 16
                                                                                                                                                                                                    Sequence 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 19; Col 39-40; 30pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   16-NOV-1993;
21-NOV-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               30-JUN-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21-SEP-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US5955597-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 binding affinity; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Phosphonate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Chirally enriched all purine oligomer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               15-NOV-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (GENT-) GENTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Local Similarity
mes 8; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   281 TCTCTCTCTCTCT 295
                                                 281
15
                                                                                                                           Similarity
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                                                                                                                                                                                                    BP; 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         internucleosidyl linkage; chirality; hybridization; racemic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.3%;
(llarity 53.3%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP; 0 A;
                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                 the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Vaghefi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   93US-00154013
94US-00343018
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               97US-00885126
                                                                                                                                                                                                    A
                                                                                                                           0.3%;
                                                                                                                                                                                                    0 C; 8 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8 C; 0 G; 1 T; 7 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ¥,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Riley TA,
                                                                                                                     Score 15;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            7;
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                                                                                                      Mismatches
                                                                                                                                                                                                    T; 0 U; 0 Other;
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                                                                                                                        DB 1; Le
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                                                                                                                                                  Length 16;
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                                                                                                   Indels
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                                                                                              0;
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                                                                                                Gaps
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RESULT 1233
AAS13731/c
ID AAS1373
XX
AC AAS1373
XZ
DT 08-MAY-
XX
DE Simple
XX
XX
Simple
KW Simple
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                                                                                                                                                                                                                                                                           Query Match
Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                           target RNA sequence. The method of making comprises: (a) synthesizing a nucleoside dimer, trimer, or tetramer with racemic internucleosidy; phosphonate linkages; (b) purifying the racemic nucleoside to a chirally pure nucleoside; and (c) sequentially linking at least 2 of the chirally pure nucleosides to form a synthetic oligomer that is enriched for phosphonate internucleosidyl linkages of a preselected chirality and is complementary to an RNA target sequence. The methods are useful for providing chirally enriched synthetic oligomers. Rp chirally enriched the providing chirally enriched synthetic oligomers. Rp chirally enriched the providing chirally enriched synthetic oligomers. Rp chirally enriched the providing chirally enriched synthetic oligomers. Rp chirally enriched the providing chirally enriched synthetic oligomers. Rp chirally enriched the providing chirally enriched synthetic oligomers.
                                                                                                                                                                                                                                                                                                                                                               synthetic oligomers have enhanced binding affinities for RNA compared to oligomers with racemic all methylphosphonate internucleosidyl linkages. Sequences AAX91054-75 represent oligomers chemically synthesised using the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Oligomers made using chirally pure nucleoside dimers, tetramers with enhanced binding affinities.
                                             Simple
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Schwartz DA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      16-NOV-1993;
21-NOV-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    30-JUN-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Phosphonate internucleosidyl linkage; chirality; hybridization; racemic; binding affinity; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Chirally enriched all pyrimidine oligomer
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                                                                            08-MAY-2002
                                                                                                                                                                                                                                                                                                                                      Sequence 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention provides methods for preparing oligomers having phosphonate internucleosidyl linkages of a preselected chirality which hybridize to a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 1999-539600/45.
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                                                                                                          AAS13731;
                                                                                                                                        AAS13731 standard; DNA; 16 BP
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                                             sequence
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                                                                                                                                                                                                                                                                                           Similarity
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                                                                                                                                                                                                                                                                                                                                      B₽;
                                                                                                                                                                                                                                                                             Conservative
                                                                            (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Vaghefi MM,
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94US-00343018.
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                                                                                                                                                                                                                                                                                                                                      0 A;
                                             repeat,
                                                                                                                                                                                                                                                                        100.0%; ++
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                                                                                                                                                                                                                                                                                                                                       C; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   30pp; English.
                                             SSR,
                                                                                                                                                                                                                  16
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ВP
                                                                                                                                                                                                                                                                           Score 15; DB; Pred. No. 6.5
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                                               #28.
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                                                                                                                                                                                                                                                                                                                                       Η;
                                                                                                                                                                                                                                                                                                                                       0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Arnold LJ,
                                                                                                                                                                                                                                                                                         DB 1; Le
                                                                                                                                                                                                                                                                              0
                                                                                                                                                                                                                                                                                                        Length 16;
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                                                                                                                                                                                                                                                                              Indels
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                                                                                                                                                                                                                                                                              Gaps
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Simple sequence repeat; plant; ds; cereal profiling; grass profiling;

SSR; seed

ryegrass; fescue; tan batch purity testing

tandem

repeat;

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RESULT 1234
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                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to a substantially purified or isolated nucleic acid (1) from ryegrass or fescue species including a simple sequence repeat (SSR), having 2 or more tandemly repeated nucleotide core elements 2-6 nucleotides in length. Also included are a nucleic acid primer suitable for amplifying an SSR, identifying (M1) an SSR by preparing a library of ryegrass or fescue genomic DNA enriched for SSRs and containing SSRs, a library of ryegrass or fescue genomic DNA enriched for SSRs, a library of ryegrass or fescue genomic DNA enriched for SSRs, a library of ryegrass or fescue genomic DNA enriched for SSRs, a library of ryegrass or fescue genomic DNA enriched for SSRs prepared by the M1, selecting for a gene in grass or cereal breeding by identifying an SSR that is closely associated with the gene such that the SSR and the gene are preferentially co-inherited, and selecting for the SSR in the breeding, a method for DNA profiling grass or cereal species varieties by assessing varieties and testing the purity of grass or cereal species varieties, for testing the purity of grass or cereal species varieties, for testing the purity of grass or cereal species varieties, for testing the purity of grass or cereal species varieties, for testing the purity of grass or cereal species varieties, for testing the purity of grass or cereal seed batches, and for DNA profiling to establish the distinct identity, uniformity and or stability of a cultivar. The present
                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local S
Matches 15
   Unidentified
                                Electrode coating;
                                                                      Biomolecule
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New simple sequence repeats having 2 core elements isolated from ryegrass genes in grass or cereal breeding or
                                                                                                        17-APR-2002
                                                                                                                                          ABA97160
                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 16 BP; 8 A; 0 C; 8 G; 0 T; 0 U; 0 Other;
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(VICT-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 24-DEC-1999; 99AU-00004906.
04-MAY-2000; 2000AU-00007310.
                                                                                                                                                                            ABA97160 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 6; Page 51; 72pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (UYAD-)
(ITMA-)
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                                                                                                                                                                                                                                                                                    281 TCTCTCTCTCTCTCT 295
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15; Conserv
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STATE VICTORIA DEPT NATURAL RES & ENVIRO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              UNIV ADELAIDE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              INT MAIZE & WHEAT IMPROVEMENT CENT.
                                                                                                                                                                                                                                                                                                                                                                                                                                     is a ryegrass or fescue SSR
                                                                                                                                                                                                                                                                refererererer 1
                                                                      coated
                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Jones ES;
                                                                                                        (first
                                                                      electrode-associated nucleotide SEQ ID
                                                                                                                                                                                                                                                                                                                                                 100.0%;
                                  quantitative electrochemical detection;
                                                                                                                                                                            DNA;
                                                                                                        entry)
                                                                                                                                                                            16
                                                                                                                                                                                                                                                                                                                                 %; Score 15; DB
%; Pred. No. 6.5
0; Mismatches
                                                                                                                                                                            ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  or more tandemly repeated nucleotide and fescue, useful for selecting of profiling grass or cereal species
                                                                                                                                                                                                                                                                                                                                                 DB 1; Lo, 6.5e+02;
                                                                                                                                                                                                                                                                                                                                                                 Length 16;
                                                                                                                                                                                                                                                                                                                                 Indels
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ARESULT 1235
AAD30495
ID AAD3049
XX AAD3049
XC AAD3049
XC AAD3049
XX 21-MAY-
XX Promisc
KW Promisc
KW ds.
XX W020021
XX W020021
XX W07-FEB-
XX Y7-JUL-
XX 27-JUL-
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                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  This invention describes a novel method of preparing an electrode coated with biomolecules (I), comprising preparing a composite of electrically conductive material (A) bound with a plastic, and treating this with a solution containing (I) so that this binds to the surface of the plastic. The electrodes are used for concentration of additional biomolecules (especially RNA or DNA), having affinity for (I), from a sample solution, and for quantitative electrochemical detection of biomolecules. The electrodes are produced simply and inexpensively, with a high loading of (I) (and the loading can be adjusted by selection of pH, temperature, or treatment time). The electrical resistance of the electrode surface is reduced, i.e. conductivity is improved. This sequence represents a nucleic acid fragment used to illustrate the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 16 BP; 8 A; 0 C; 8 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Electrode comprising conductive polymeric composite with attached biomolecules, useful for concentration or determination of specific
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Key
 27-JUL-2000; 2000AU-00009026
                           27-JUL-2001; 2001WO-AU000931.
                                                         07-FEB-2002
                                                                                     WO200210443-A1
                                                                                                               Potyvirus.
                                                                                                                                                        Promiscuous probe; target nucleic acid; detection; polymerase;
                                                                                                                                                                                      Potyvirus
                                                                                                                                                                                                                  21-MAY-2002
                                                                                                                                                                                                                                              AAD30495
                                                                                                                                                                                                                                                                       AAD30495 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Krause
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO200190752-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (NOVE-) NOVEMBER GES MOLEKULARE
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                                                                                                                                                                                                                                                                                                                                                                        281 TCTCTCTCTCTCT
                                                                                                                                                                                                                                                                                                                                             15
                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  compounds,
                                                                                                                                                                                    polymerase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Misch A,
                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /mod_base= OTHER
/note= "5'-end modified by presence of NH2"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /*tag=
                                                                                                                                                                                                                                                                       DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  e.g.
                                                                                                                                                                                                                                                                                                                                                                                                               0.3%;
                                                                                                                                                                                    B motif encoding DNA #3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Schuelein J,
                                                                                                                                                                                                                                                                          16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    nucleic
                                                                                                                                                                                                                                                                                                                                                                        295
                                                                                                                                                                                                                                                                          ЯB
                                                                                                                                                                                                                                                                                                                                                                                                    0
                                                                                                                                                                                                                                                                                                                                                                                                               Score 15;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MED
                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Hassmann
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ą
                                                                                                                                                                                                                                                                                                                                                                                                               DB 1; Le
                                                                                                                                                                                                                                                                                                                                                                                                    0
                                                                                                                                                                                                                                                                                                                                                                                                                             Length 16;
                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                    0
                                                                                                                                                          B motif;
                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
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RESULT 1236
ABA81935/c
ID ABA8193
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    target polynucleotides, where one target polynucleotide comprises at least one target sequence that is shared with one or more other polynucleotides. A predefined combination of promiscuous probes is capable of hybridising to target sequences of at least one target polynucleotide, wherein said predefined combination of probes provide specificity of detection of that target polynucleotide. The probes of the invention are useful for detecting a number of different target polynucleotides using a programmable digital computer or for detecting an unknown or uncharacterised number of a polynucleotide family. The present sequence is potyvirus polymerase B motif encoding DNA used in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         methods for detecting several different target polynucleotides. The set comprises a collection of different promiscuous probes each of which is capable of hybridising to a target sequence shared between at least two
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Set of oligonucleotide probes for detecting different target polynucleotides, comprises a collection of different promiscuous each of which hybridizes to a target sequence shared between two
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI;
           Remacle J,
Alexandre
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      17-AUG-2000; 2000AU-00009483.
18-AUG-2000; 2000US-0226212P.
                                                                          24-MAR-2000;
15-SEP-2000;
                                                                                                                  26-MAR-2001; 2001WO-BE000053
                                                                                                                                             18-OCT-2001
                                                                                                                                                                     WO200177372-A2
                                                                                                                                                                                                Rattus
                                                                                                                                                                                                                                      polymorphism
                                                                                                                                                                                                                                                   Microorganism
                                                                                                                                                                                                                                                                             Rat G-protein
                                                                                                                                                                                                                                                                                                       25-JAN-2002
                                                                                                                                                                                                                                                                                                                                   ABA81935;
                                                                                                                                                                                                                                                                                                                                                            ABA81935 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         polynucleotides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gibbs MJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2002-206194/26
                                                                                                                                                                                                                                                                                                                                                                                                                                                       281
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 l Similarity
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                                                UNIV NOTRE-DAME DE LA PAIX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   16
                                                                                                                                                                                                                                                                                                                                                                                                                                                      rererererer 295
                                                                                                                                                                                                                                                                                                                                                                                                                            refererererer 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Fig 5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gibbs
           Hamels S,
De Long
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BP; 0 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    invention
                                                                          2000EP-00870055.
2000EP-00870204.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AUSTRALIAN
                                                                                                                                                                                                                                      detection;
                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                  detection; capture oligonucleotide; probe; cancer; biochip;
detection; genetic disease diagnosis; microarray; primer;
                                                                                                                                                                                                                                                                          serotonin receptor consensus primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AJ,
           Longueville
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            75pp;
                                                                                                                                                                                                                                                                                                                                                            DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8 C; 0 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 relates to a set of oligonucleotide probes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Brown RW
                       Zammatteo N,
                                                                                                                                                                                                                                                                                                                                                            16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 15;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                      Lockman L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6.5e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 16;
                        Dufour
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                             #5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
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RESULT 1237
AAGS8577/c
ID AAQS8577/c
XX AAQS857
XX Sequenc
DE Sequenc
XX WO94041
XX WO94041
XX WO94041
XX WO94041
XX WM94041
XX USMan 1
XX Transp(
PT Tran
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Matches
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                                                         a membrane which comprises using a receptor that uses salt bridgin, aromatic stacking, H bonding and chelation to recognise the nucleic acid deriv. AAQ56305, AAQ58577-86 are nucleic acid derivs used in the examples. Nucleotides 1-16 of AAQ58577 are ribonucleotides and nucleotide 17 is a deoxyribonucleotide. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       microorganism in a sample by detecting its nucleotide sequence from amongst homologous sequences. The method can be used to detect microorganisms and polymorphisms, and to diagnosis genetic diseases including cancer. The present sequence is a consensus primer used in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI;
  Sequence
                                                                                                                                                                                                                                                                                                                                Transport of nucleic acid derivs. across membranes - which use salt bridging, aromatic stacking, hydrogen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       03-MAR-1994.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 16 BP; 1 A; 9 C; 1 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Identifying or quantifying organisms or genes, useful e.g. for diagnosis, by detecting specific nucleotide sequences present among several
                                                                                                                                                                                                                                                       Example; Table 1, page
                                                                                                                                                                                                                                                                                                           chelation
                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 1994-082846/10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14-AUG-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  13-AUG-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO9404194-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Novel receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   25-MAR-2003
21-AUG-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAQ58577;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAQ58577 standard; RNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 12; Page 40; 56pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (MASI ) MASSACHUSETTS INST TECHNOLOGY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              homologous
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             present invention provides a method of identifying
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2380 GGAGGGAGCAGAAGG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              15;
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       17
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Rebek J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sequences.
     B₽;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    synthetic RNA oligo which is a target nucleotide for a novel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (revised)
(first en
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   92US-00930087.
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     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             nucleic acid;
  A; 0 C; 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                               De
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.3%;
                                                                                                                                                                                                                                                       38; 103pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mendoza
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0;
  G; 1 T; 0 U;
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          transport; oligo;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 1; Lo
  0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                using new receptors bonding and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ဝူ
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Query Match

0.3%;

Score 15;

DB 1;

Length

17;

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RESULT 1238
AAX91057
ID AAX9105
XX AAX9105
XX D15-NOV.
DT 15-NOV.
DT 01igom
XX Phosph
KW bindin
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RESULT 1239
AAX91070
ID AAX9107
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Best Local S
Matches 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity
                            AAX91070 standard; RNA; 17 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention provides methods for preparing oligomers having phosphonate internucleosidyl linkages of a preselected chirality which hybridize to a target RNA sequence. The method of making comprises: (a) synthesizing a nucleoside dimer, trimer, or tetramer with racemic internucleosidyl phosphonate linkages; (b) purifying the racemic uncleoside to a chirally pure nucleoside; and (c) sequentially linking at least 2 of the chirally pure nucleosides to form a synthetic oligomer that is enriched for phosphonate internucleosidyl linkages of a preselected chirality and is complementary to an RNA target sequence. The methods are useful for providing chirally enriched synthetic oligomers, Rp chirally enriched synthetic oligomers have enhanced binding affinities for RNA compared to oligomers with racemic all methylphosphonate internucleosidyl linkages. Sequences AAX91054-75 represent oligomers chemically synthesised using the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Oligomers made using chirally pure nucleoside tetramers with enhanced binding affinities.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Oligomer prepared using 2'-O Methyl MP(Rp)/2'-O Methyl MP dimer
                                                                                                                                                                                                                                                                                                                                                                                      Sequence 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Schwartz DA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 30-JUN-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 8; Col 39-40; 30pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 1999-539600/45.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16-NOV-1993;
21-NOV-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       21-SEP-1999
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                                                                                                                                                                BP; 1
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larity 46.7%;
Conservative
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94US-00343018
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Pred. No. 7.2e
8; Mismatches
                                                                                                                                                                                                                                                                            8
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mismatches 0;
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                                                                                                                                                                                                                                                                                                   7.2e+02;
                                                                                                                                                                                                                                                                                                                                DB 1; Length 17;
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ABN06413
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention provides methods for preparing oligomers having phosphonate internucleosidyl linkages of a preselected chirality which hybridize to a target RNA sequence. The method of making comprises: (a) synthesizing a nucleoside dimer, trimer, or tetramer with racemic internucleosidyl phosphonate linkages; (b) purifying the racemic nucleoside to a chirally pure nucleoside; and (c) sequentially linking at least 2 of the chirally pure nucleosides to form a synthetic oligomer that is enriched for phosphonate internucleosidyl linkages of a preselected chirality and is complementary to an RNA target sequence. The methods are useful for providing chirally enriched synthetic oligomers, Rp chirally enriched synthetic oligomers, Rp chirally enriched synthetic oligomers with racemic all methylphosphonate internucleosidyl linkages.
                                       Human; genome-derived myosin-like protein 1; GDMLP-1; hGDMLP-1; heart; muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease; skeletal muscle disorder; amplicon; screening; ss.
                                                                                                                                                                                                                                                                                                                                                                                                        Sequences AAX91054-75 represent oligomers chemically synthesised using the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Oligomers made using chirally pure nucleoside tetramers with enhanced binding affinities.
                                                                                                  Human GDMLP-1
                                                                                                                               29-MAY-2002
                                                                                                                                                                                                                                                                                                                                                                                Sequence 17
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                                                                                                                                                           ABN06413;
                                                                                                                                                                                        ABN06413 standard; DNA; 17 BP
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                                                                                                                              (first entry)
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94US-00343018.
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                                                                                              scanning SEQ
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Pred. No. 7.2e+02;
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                                                                   RESULT 1241
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The present sequence represents an oligomer used in the screening of the hGDMLP-1 sequence data for this patent did not form part of the printed capture with the expression of hGDMLP-1 in particular heart of the present invention. N.B. The purposition of the printed in electronic format directly from WIPO as format format directly from WIPO as format directly from WIPO as format directly from WIPO
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Best Local
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30-JAN-2001;
30-JAN-2001;
30-JAN-2001;
30-JAN-2001;
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30-JAN-2001;
30-JAN-2001;
30-JAN-2001;
30-JAN-2001;
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   ABN06411;
                                   ABN06411 standard; DNA; 17
                                                                                                                                                                                                                                                         Sequence
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30-JAN-2001;
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                                                                                                                                                                                         Local Similarity
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2001WO-US000661.
2001WO-US000663.
2001WO-US000664.
2001WO-US000665.
2001WO-US000667.
2001WO-US000668.
2001WO-US000668.
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2001WO-US000668.
                                                                                                                                                                                         Conservative
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2000US-0236359P.
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Pred. No. 7.2e+02;
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30-JAN-2001;
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therapeutic supplement in patients having specific deficiency in hGDMLP-1 production, and in vaccines or for replacement therapy. The polymucleotide sequences encoding hGDMLP-1 may be used for diagnosing a disorder associated with the expression of hGDMLP-1, in particular heart and skeletal muscle disorders. hGDMLP-1 is localised to chromosome 22. The present sequence represents an oligomer used in the screening of the hGDMLP-1 sequence in the exemplification of the present invention. N.B. The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human myosin-like protein hGDMLP-1.
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2000US-023458PP.

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2001WO-US000661.

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protein 1 (hGDMLP-1). The protein and polymic-leotide sequences of hGDMLP-1 can be used in gene therapy and vaccine production. The hGDMLP-1 mucleic acids can be used as probes to detect, characterise and quantify hGDMLP-1 nucleic acids in samples, as amplification substrates, to protein variants having desired phenotypic improvements, and for expressing the proteins. The hGDMLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise hGDMLP-1 proteins, as standards in assays used to determine the concentration and/or amount specifically of hGDMLP proteins, as specific biomolecule capture probes for surface-enhanced laser desorption ionisation, as therapeutic supplement in patients having specific deficiency in hGDMLP-1 proteins, and in vaccines or for replacement therapy. The polymorphopolation, and in vaccines or for replacement therapy. The disorder associated with the expression of hGDMLP-1, in particular heart and skeletal muscle disorders. hGDMLP-1 is localised to chromosome 22.
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30-JAN-2001;
30-JAN-2001;
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                                                                                                                                                                                                                                                                                                   New polypeptide, for raising antibodies that or as specific biomolecule capture probes for
                                                                                                                                                                                                                                                                                                                                              WPI;
                                                                                                                                                                                                                                                            Disclosure;
                                                                                                                                                                                                                                                                                    desorption ionization, comprises human myosin-like protein hGDMLP-1.
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30-JAN-2001;
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                                                                                                                                                                                                                                                                                                                                                                       SG,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       scanning
                                                                                                                                                                                                                               describes a human genome-derived myosin-like
                                                                                                                                                                                                                                                         6404; 214pp; English.
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                                                                                                                                                                                                                                                                                                 recognize hGDMLP-1 proteins, surface-enhanced laser
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RESULT 1243
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                            given in the specification, a sequence containing at least 15 consecutive concloses from the 17 mer sequence, a sequence with, after optimal alignment, at least 80 % identity to the 17 mer sequence, a sequence that conditions, or the complement conditions of the invention are useful as probes and primers for detecting, identifying, quantifying and/or amplifying a nucleic acid, e.g. as one component of a gene chip, in vitro as (anti)sense reagents, and for production of recombinant polypeptides. Any of the nucleic acids, polypeptides, vectors containing the nucleic acids, collseases that are characterised by development of tumours or cell diseases that are characterised by development of tumours or cell diseases that are characterised by development of tumours or cell diseases that are characterised by development of tumours or cell diseases. The polypeptides can also be used to generate antibodies, and for patient samples is useful for diagnosis and/or prognosis of these care and seven to the sequence of the sequence of the sequence of these care and sequence and sequence of the sequence of these care and sequence of the sequence of the
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New isolated nucleic acid, useful for treating viral diseases associated with tumors and cell degeneration, also related polypeptides, antibodies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip; antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease; schizophrenia; protein chip; gene therapy; tumour suppression; human fukutin; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present sequence represents an oligomer used in the screening of the RDMLP-1 sequence in the exemplification of the present invention. N.B. The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to a novel isolated 17 mer nucleic acid sequence, given in the specification, a sequence containing at least 15 consecutive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; Page 344; 720pp; French
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      with tumors and cell dand transfected cells.
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RESULT 1244
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18-MAY-1994;
15-AUG-1994;
23-DEC-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Enzymatic nucleic acid; nuclear factor kappa B; NFKB; inozyme; zinzyme; G-cleaver; amberzyme; cancer; REL-A activity; breast cancer; human; lung cancer; prostate cancer; colorectal cancer; brain cancer; oesophageal cancer; stomach cancer; bladder cancer; paracreatic cancer; cervical cancer; head and neck cancer; ovarian cancer; melanoma; lymphoma; glioma; multidrug resistant cancer; REL-A-specific inhibitor; chemotherapy; paclitaxel; docetaxel; cisplatin; methotrexate; cyclophosphamide; doxorubin; floropuracil carboplatin; edatrexate; gemecitabine; radiation therapy; inflammatory disease; asthma; diabetes; rheumatoid arthritis; restenosis; Crohn; s disease; obesity; ischaemia; gene therapy; autoimmune disease; lupus; multiple sclerosis; sepsis; transplant/graft rejection; reperfusion injury; glomerulonephritis; allergic airway inflammation; inflammatory bowel disease; infection; ss
                    The invention describes an enzymatic nucleic acid molecule (I) which down regulates expression of a sequence encoding a subunit of nuclear factor kappa B (NFKB), where (I) is an inozyme, zinzyme, G-cleaver or amberzyme configuration. The enzymatic nucleic acid molecule is adapted to treat cancer and is useful for down-regulating REL-A activity in a cell, for treating a patient having a condition associated with the level of REL-A.
                                                                                                                                                                                                                                                                              Novel enzymatic nucleic acid molecules which down regulates expression a sequence encoding a subunit of nuclear factor kappa B useful for treating cancer, inflammatory disorders and autoimmune diseases.
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     (I) is useful for (
                                                                                                                                                                                                                                Claim 3;
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(MCSW/)
(DRAP/)
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15; Conserv
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MCSWIGGEN J.
DRAPER K G.
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94US-00245466.
94US-00291932.
96US-00777916.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mcswiggen J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      . G.
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Pred. No.
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7.2e+02
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RESULT 1245
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local S
Matches 15
                                                                                       The invention relates to acid molecule or an enzy expression of a nucleic
                                                                                                                                                                                                                                                                                      treating canc
HER2, K-Ras,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     29-MAY-2001; 2001US-0294140P.
06-JUN-2001; 2001US-0296249P.
10-SEP-2001; 2001US-0318471P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytostatic; ant: anti-rheumatic; cancer; AIDS; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2003-140484/13.
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                                                                                                                                                                                                                                                                                          short interfering RNA and enzymatic nucleic acid useful for ing cancer, modulates the expression of a nucleic acid encoding K-Ras, H-Ras, N-Ras, and human deficiency virus sequences.
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                              es to a novel short interfering RNA (siRNA) nucleic enzymatic nucleic acid molecule, that modulates leic acid molecule encoding HER2, K-Ras, H-Ras, N-Rancy virus (HIV) or a component of HIV. The nucleic e invention has cytostatic, anti-HIV, and anti-
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                        The invention relates to the isolation of 6327 nucleotide sequences, of fragments of at least 15 consecutive nucleotides of these nucleotides, a sequence having at least 80% identity, after optimal alignment, with the nucleotides, a sequence that hybridizes under stringent conditions with the nucleotides. The nucleotides are used as probes or primers for detecting, identifying, quantifying and/or amplifying nucleic acids, as in vitro sense and antisense sequences, of nucleotides involved in tumour suppression or reversion, apoptosis and or viral resistance, to produce recombinant polypeptides, and to prepare transgenic animals, as experimental models. The nucleotides (also vectors containing them and cells containing the vectors), the encoded polypeptides and antibodies (Ab) against the polypeptide are useful for prevention and/or treatment of viral infections or diseases characterized by development of tumours or cell degeneration (e.g. Alzheimer's disease or schizophrenia).

Analysis of the expression of the nucleotides can be used for diagnosis and/or prognosis of these diseases. The nucleotides can
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Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New nucleic acid encoding human prostate membrane-specific antigen, useful e.g. for treatment of tumors and viral infection, also related polypeptide and antibodies.
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virus resistance; transgenic animals; Alzheimer's disease; schi
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The invention comprises nucleic acids (e.g. antisense oligonucleotides) that down regulate the expression or inhibit the function of a receptor (hat down regulate the expression or inhibit the function of a receptor (for a neurite growth inhibitor, NOGO, prostaglandin D2 receptor (PTGDR), I kappaB kinase (IKK), or protein kinase PKR. The nucleic acids of the invention are useful for treating: cerebrovascular accident, central nervous system (CNS) injury, spinal cord injury, cancer (e.g. melanoma, inflammatory disease (e.g. rheumatoid arthritis, restenosis or asthma), Crohn's disease (e.g. rheumatoid arthritis, autoimmune disease, lupus, multiple sclerosis, transplant/graft rejection, conditions (e.g. asthma, allergic rhinitis or atopic dermatitis). The nucleic acids of the invention are also useful for down-regulating the expression of a target gene and as a diagnostic tool to examine genetic drifts and mutations within diseased cells or to detect the presence of a
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Novel enzymatic nucleic acid that down-regulates expression of neurite growth inhibitor receptor, prostaglandin D2 receptor, IkappaB kinase operation kinase PKR genes, for treating cancer and inflammatory disease
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29-MAY-2001; 2001US-0294412P
28-AUG-2001; 2001US-0315315P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     protein kinase PKR; cérebrovascular accident; epinal cord injury; cancer; central nervous system injury; CNS injury; spinal cord injury; cancer; melanoma; lymphoma; glioma; inflammatory disease; rheumatoid arthritis; restenosis; asthma; Crohn's disease; diabetes; obesity; autoimmune disease; lupus; multiple sclerosis; transplant rejection; graft rejection; ischaemia; reperfusion; glomerulonephritis; sepsis; allergy; asthma; allergic rhinitis; atopic dermatitis; Human IKK-gamma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             antisense oligonucleotide; neurite growth prostaglandin D2 receptor; PTGDR; IkappaB
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            potentially useful for treating diseases associated with abnormal expression of the nucleotides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             03-APR-2002; 2002WO-US010512
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human IKK-gamma
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (RIBO-) RIBOZYME PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       281 TCTCTCTCTCTCTCT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQ ID NO 1442; 317pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Chowrira B,
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target RNA in a cell. The present RNA sequence represents a human IKK-

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ADL47908/c
IID ADL479
XX ADL479
XX ADL479
XX Human
XX Human
XX Human
XX Prootei
KW Prootei
XX Unider
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PR 29-MA:
PR 29-
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The invention comprises nucleic acids (e.g. antisense oligonucleotides) that down regulate the expression or inhibit the function of a receptor (For an neurite growth inhibitor, NOGO, prostaglandin D2 receptor (PTGDR), I RappaB kinase (IKK), or protein kinase PKR. The nucleic acids of the invention are useful for treating; cerebrovascular accident, central rervous system (CNS) injury, spinal cord injury, cancer (e.g. melanoma, I ymphoma or glioma), inflammatory disease (e.g. rheumatoid arthritis, crestenosis or asthma), Crohn's disease (diabetes, obesity, autoimmune disease, lupus, multiple sclerosis, transplant/graft rejection, conditions (e.g. asthma, allergic rhinitis or atopic dermatitis). The nucleic acids of the invention are also useful for down-regulating the expression of a target gene and as a diagnostic tool to examine genetic carifts and mutations within diseased cells or to detect the presence of a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             05-APR-2001; 2001US-00827395.
29-MAY-2001; 2001US-0294412P.
28-AUG-2001; 2001US-0315315P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        protein kinase PKR
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nes 15; Conser
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               enzymatic nucleic acid that down-regulates expression of neurite h inhibitor receptor, prostaglandin D2 receptor, IkappaB kinase on kinase PKR genes, for treating cancer and inflammatory disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                 59;
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Pred. No.
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3. 7.2e+02;
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29-MAY-2001;
28-AUG-2001;
The invention comprises nucleic acids (e.g. antisense oligonucleotides) that down regulate the expression or inhibit the function of a receptor for a neurite growth inhibitor, NOGO, prostaglandin D2 receptor (PTGDR), IkappaB kinase (IKK), or protein kinase PKR. The nucleic acids of the invention are useful for treating: cerebrovascular accident, central nervous system (CNS) injury, spinal cord injury, cancer (e.g. melanoma, lymphoma or glioma), inflammatory disease (e.g. rheumatoid arthritis, restenosis or asthma), Crohn's disease, diabetes, obesity, autoimmune disease, nultiple sclerosis, transplant/graft rejection, schaemia/reperfusion injury, glomerulomephritis, sepsis, and allergic conditions (e.g. asthma, allergic rhinitis or atopic dermatitis). The nucleic acids of the invention are also useful for down-regulating the expression of a target gene and as a diagnostic tool to examine genetic drifts and mutations within diseased cells or to detect the presence of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 antisense oligonucleotide; neurite growth inhibitor; NOGO; prostaglandin D2 receptor; PTGDR; IkappaB Kinase; IKK; protein kinase PKR; cerebrovascular accident; central nervous system injury; CNS injury; spinal cord injury; cancer; melanoma; lymphoma; glioma; inflammatory disease; rheumatoid arthritis; restenosis; asthma; Crohn's disease; diabetes; obesity; autoimmune disease; lupus; multiple sclerosis; transplant rejection; graft rejection; ischaemia; reperfusion; glomerulonephritis; sepsis; allergy; asthma; allergic rhinitis; atopic dermatitis; Human IKK-gamma.
                                                                                                                                                                                                                                                                 Novel enzymatic nucleic acid that down-regulates expression of neurite growth inhibitor receptor, prostaglandin D2 receptor, IkappaB kinase or protein kinase PKR genes, for treating cancer and inflammatory disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            gamma
                                                                                                                                                                                                                                                                                                                                                               Blatt L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           03-APR-2002; 2002WO-US010512
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    substrate;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             target RNA in a
                                                                                                                                                                                                                                    Claim 59; SEQ ID NO 2255; 317pp; English
                                                                                                                                                                                                                                                                                                                                  WPI; 2003-058513/05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO200281628-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human IKK-gamma substrate sequence #1232.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADL48722 standard; RNA; 17
                                                                                                                                                                                                                                                                                                                                                                                              (RIBO-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Unidentified
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   l Similarity
15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                              RIBOZYME PHARM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GGCCACCAGGGCCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17
                                                                                                                                                                                                                                                                                                                                                               Chowrira B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ds.
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; 2001US-0294412P.
; 2001US-0315315P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cell. The present RNA sequence represents a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Α,
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                                                                                                                                                                                                                                                                                                                                                                 Haeberli
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                                                                                                                                                                                                                                                                                                                                                               Mcswiggen J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  No.
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7.2e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
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                                                                                                                                                                                                                                                                                                                                                               Fosnaugh
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
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AAT49874
                                          Query Match
Best Local S
Matches 15
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Best Local S
Matches 15
                                                                                                                          encoding returned
                                                                                                                                    The sequences given in AAT49874-75 are primers which were used in the amplification of rat Syk kinase mRNA. Sequences antisense to the Syk kinase mRNA, Sequences antisense to the Syk kinase mRNA, sequences antisense to the Syk kinase mRNA, were used to reduce phagocytosis of immune complexes in a mammal by introducing into phagocytic cells an inhibitor of an endogenous kinase associated with an Fc receptor on the cell membrane. Inhibition of phagocytosis modulates clearance of antibody-coated cells and immune complexes, so reduces or prevents regional tissue damage caused by monocyte or neutrophil activation, i.e. for treatment of immunological disease, e.g. autoimmune disease, caused by reaction of immune complexes and an Fc receptor, and immune disorders such as asthma. Sequences encoding the inhibitor may be introduced ex vivo and the cells then
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   gamma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       phagocytic cell; endogenous kinase; Fc receptor; FcR; cell antibody-coated cell; tissue damage; monocyte; neutrophil; immunological disease; autoimmune disease; asthma; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                target RNA in a cell. The
                                                                                                                                                                                                                                                                                                                                            Inhibiting phagocytosis of immune complexes by mammalian cells cpds. that inhibit endogenous kinase or binding to, or expression receptors on the cell membrane, for treating asthma and other auticipates.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      07-JUN-1995;
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                                                                                               Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Stem loop
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Primer, Rat-5 Syk, binds to nucleotides 368-386.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        29-AUG-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAT49874 standard;
                                                                                                                                                                                                                                                                                                         Example 6; Page 55; 85pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                Schreiber AD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                           (UYPE-) UNIV PENNSYLVANIA.
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533 TGGCAACATCACCCG 547
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   substrate sequence.
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                                            l Similarity
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                                                                                                18
                                                                                                                          to the patient
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                                                                                                BP; 4 A;
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                                            Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                Park J;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 96WO-US010494.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Syk kinase; phagocytosis;
                                                       0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5 C; 7 G;
                                                                                               6 C; 4 G; 4 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  present RNA sequence represents a human IKK-
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Pred. No.
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                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          T; 2 U;
                                      DB 1; L.
o. 7.9e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  immune complex;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 17;
                                                                    Length 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                             Indels
                                                                                                                                                                                                                                                                                                                                                or expression of, Fc and other auto:immune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      membrane;
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ARESULT 1251
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 1252
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                               Syk kinase; inhibitor; signal transduction; Fc epsilon RI; Syk-producing cell mediator; Fc receptor activation; asthma; PCR primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present sequence represents a PCR primer used in distinguishing fertility recovery properties in rice. The presence of codominant DNA marker for a gene encoding a fertility recovery in rice gene is confirmed by a PCR. A primer prepared from the rice DNA as a template is used in the PCR analysis to characterise the genotype of the gene for rice fertility recovery. The genotype of the gene can be distinguished at a fertility recovery.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Distinguishing fertility recovery property in marker confirmed by polymerase chain reaction.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Rice; cytoplasmic male sterility recovery gene; diagnosis; fertility;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Rice cytoplasmic male sterility recovery gene PCR primer.
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                                                                                                    Synthetic.
                                                                                                                                                                                                                                                         PCR primer Rat-5 Syk for syk mRNA.
                                                                                                                                                                                                                                                                                                            22-APR-1999
                                                                                                                                                                                                                                                                                                                                                               AAX01409;
                                                                                                                                                                                                                                                                                                                                                                                                                   AAX01409 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 1; Page 6; 10pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 1998-080078/08
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BP; 8 A; 1 C; 8 G; 0 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PCR primer; codominant;
                                                                                                                                                                                                                                                                                                            (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                   DNA; 18
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Pred.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    7.9e+02;
                                                                                                                                                    gamma subunit; IgE receptor;
phagocytic potential;
ss.
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RESULT 1253
AAX18953
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Best Local
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30-SEP-1994;
07-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  This sequence represents a PCR primer for rat Syk kinase. The invention relates to a method for inhibiting the signal transduction of the gamm subunit of the IgE receptor Fc epsilon RI, using a peptide inhibitor, an antisense construct. The invention also relates to a method of inhibiting the release of a mediator from a Syk-producing cell of a mammal, and a method of inhibiting the phagocytic potential of a mammalian cell expressing an Fc receptor. The methods are useful for modulating the activation of immunological processes involving Fc
New molecular marker for a gene determining fructose:glucose ratio mature tomatoes - useful for finding this gene and producing tomato seeds, plants and/or fruit with an increased fructose to glucose ra
                                                WPI; 1999-142457/12.
                                                                                                                       23-JUL-1997;
                                                                                                                                               16-JUL-1998;
                                                                                                                                                                       04-FEB-1999
                                                                                                                                                                                              WO9904621-A1
                                                                                                                                                                                                                                           Fructose:glucose ratio determining gene; mature tomato fruit; flavour; MS6 primer; MS8 primer; PCR primer; molecular marker; ss.
                                                                                                                                                                                                                                                                                 Fructose:glucose
                                                                                                                                                                                                                                                                                                         14-MAY-1999
                                                                                                                                                                                                                                                                                                                                                        AAX18953
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Inhibition of Fc receptor signal transduction in lung cells - useful for modulating the activation of immunological processes involving {\sf Fc}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               07-JUN-1996;
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                                                                                               (ISRA ) ISRAEL MIN AGRIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (UYPE-)
                                                                                                                                                                                                                                                                                                                                                                                                                                            533
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6; Col 21; 36pp; English.
                                                                                                                                                                                                                                                                                                                                                        standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                            TGGCAACATCACCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          activation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          activation,
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                                                                       Shaffer AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BP; 4 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              93US-00129381.
94US-00316425.
95US-00483530.
                                                                                                                       97IL-00121373
                                                                                                                                               98WO-IL000336
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 96US-00657884
                                                                                                                                                                                                                                                                              ratio determining gene PCR MS6 primer
                                                                                                                                                                                                                                                                                                                                                        DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6 C; 4 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         especially asthma
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0,
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AAX18955
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            fructiose:glucose ratio in mature tomatoes. Also described are: (1)
CC breeding tomato plants that produce tomatoes having superior taste
CC characteristics. At least one Lycopersicon esculentum plant is crossed
CC with a Lycopersicon spp. to produce hybrid (F1) seeds, which grow into F1
CC plants that produce seeds. These seeds produce plants, which produce ripe
CC fruit, in which the fructose:glucose content is determined using the
CC marker gene; and (2) tomato plants produced by the method, and their
CC fruit and seeds. The marker is useful for finding (and cloning) genes
CC that produce tomatoes having superior taste characteristics. The marker
CC gene is also useful in a method of breeding tomato plants for selecting
CC plants producing fruit having desired characteristics, including a higher
CC fructose:glucose ratio than that of standard L. esculetum. The molecular
CC marker enables the selection of tomato plants at the young seedling
CS stage, and eliminates undesirable environmental effects on the plant
CC phenotype, which can limit the effectiveness of selection for a phenotype
CC characteristic. The present sequence represents a primer used in
CC producing an amplification product for use as the marker
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local S
Matches 15
                                                                                                                           New molecular marker for a gene determining fructose:glucose ratio mature tomatoes - useful for finding this gene and producing tomato
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim
                                                      The present invention describes a molecular marker
                                                                                  Claim 4; Page 11; 17pp; English.
                                                                                                                                                                                                      Levin
                                                                                                                                                                                                                                                                23-JUL-1997;
                                                                                                                                                                                                                                                                                         16-JUL-1998;
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                                                                                                                                                                                                                                                                                                                                                                               Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                            Fructose:glucose ratio determining gene; mature tomato MS6 primer; MS8 primer; PCR primer; molecular marker; s
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Fructose:glucose ratio determining
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     14-MAY-1999
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                                                                                                                                                                                                                                   (ISRA)
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                                                                                                               plants
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                                                                                                                                                                                                                                   ISRAEL MIN AGRIC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             standard; DNA; 18
                                                                                                                                                                                                      Shaffer AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ВP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first
                                                                                                                and/or
                                                                                                                                                                                                                                                                97IL-00121373
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                                                                                                                         useful
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10 C; 0 G; 8 T; 0 U; 0 Other;
                                                                                                               fruit with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       describes a molecular marker for a gene determining in mature tomatoes. Also described are: (1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      15
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                                                                                                                an
                                                                                                                                                                                                                                                                                                                                                                                                                                                     gene PCR MS8
                                                                                                                  increased
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7.9e+02;
                                                                                                                  fructose
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      primer.
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                                                      Ø
                                                      gene determining
                                                                                                               glucose
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                                                                                                                                                                                                                                                                                                                                                                                                                           flavour;
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fructose:glucose ratio in mature tomatoes. Also described are: (1) breeding tomato plants that produce tomatoes having superior taste characteristics. At least one Lycopersicon esculentum plant is cros

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Length 18

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RESULT 1255
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Matches 15
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The present invention describes a UL9 substrate comprising: a first strand (A) including a UL9 herpes replication origin sequence and a first single stranded tail 3' relative to the herpes replication origin sequence; and a second strand (B) including a sequence complementary to the UL9 herpes replication origin sequence. The UL9 substrates are usefu for detecting UL9 helicase activity in combination with ICP8 and ATP and also detecting the ability of the detecting the ability of the strate is useful for detecting the helicase activity. Immobilised UL9 substrate is useful for detecting herpes infected samples. AAA87951 to AAA87967 represent specifically claimed herpes replication origin sequences given in the present
                                                                                                                                                                                                                                                                                                                                                                                                                  Substrate for detecting helicase activity in a UL9 protein, strand including a herpes replication origin sequence and ar including a complementary sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 UL9 substrate; herpes simplex virus; HSV; herpes; detection; helicase; replication origin; infection; ds.
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                                                                                                                                                                                                                                                                                                                                                           Claim 5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2000-542305/49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Lee SS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Herpes simplex virus unknown type.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           UL9 herpes replication origin sequence SEQ ID NO:25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAA87963;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             281 TCTCTCTCTCTCTCT
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                                                                                                                                                                                                                                                                                                                                                           Fig 2C; 36pp;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
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                                                                                                                                                                                                                                                                                                                                                           English.
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Pred. No.
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7.9e+02;
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RESULT 1256
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Syk; tyi
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PM U5-JUN-
PM U5-JUN-
PM 14-SEP-
PM 30-SEP-
PM 30-SEP-
PM 30-SEP-
PM 07-JUN-
PM (UYPE-)
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FINISH SChreit
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CX (UYPE-)
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Best Local Similarity
Matches 15; Conserv
                                                            Matches
                                                                                      Query Match
Best Local
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30-SEP-1994;
07-JUN-1995;
                                                                                                                                                                                                                                                 The present sequence is that of PCR primer Rat-3 Syk, which corresponds to nucleotides 748-762 of rat Syk man. Rat-3 Syk was used with primer Rat-5 Syk (see AAH26015) in the PCR amplification of rat Syk cDNA derived from RBL-2H3 mast cells. An experiment was performed to demonstrate inhibition of histamine release from RBL-2H3 cells by a stem-loop antisense oligonucleotide (see AAH26020) of the invention. The invention provides a claimed method of inhibiting the release of a mediator from a Syk-producing cell. This involves introducing into the cell an antisense construct that targets an Syk encoding sequence such that inhibition is effected. The cell is preferably present in the lung of an asthma patient. Also claimed is a method of treating an inflammatory condition in a patient by administering an antisense construct that targets Syk
                                                                                                                                                                    Sequence 18 BP; 4 A; 6 C; 4 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Inhibiting the release of a mediator from a Syk-producing ce-
gene therapy for treating inflammatory conditions or asthma,
introducing into the cell Syk antisense oligonucleotides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Syk; tyrosine kinase; rat; antisense; asthma; gene therapy; antiasthmatic; inflammation; antiinflammatory; phagocytosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2001-380484/40.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Schreiber AD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14-SEP-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PCR primer Rat-3 Syk.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAH26016 standard;
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                                                                                         Similarity
                                                                                                                                                                                                                             sequences and inhibits Syk kinase production
        TGGCAACATCACCCG 547
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTCTCTCTCTTCTC 1
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ilarity 100.0%;
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                                                            Conservative
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95US-00483530.
96US-00657884.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         93US-00129381.
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                                                                                      0.3%;
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Pred. No.
                                                                                         Score 15;
Pred. No.
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                                                               Mismatches
                                                                                      DB 1; Le
. 7.9e+02;
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                                                                                                                Length 18,
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ma, by
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 useful
                                                         Gaps
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RESULT 1258
ABX15437
ID ABX1543
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AAL54242/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to a novel oligonucleotide primer comprises in the following order, from 5' to 3': a phage-encoded RNA polymerase recognition sequence; a spacer sequence comprising a sequence of 12-21 nucleotides; and a target complementary sequence that can bind a segment of a target nucleic acid. The oligonucleotide primer is useful in amplifying a target nucleic acid. The primer is also useful for copying intermediate duplexes and target nucleic acids. This polymucleotide represents an example of a spacer sequence between an RNA polymerase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New oligonucleotide primer having phage-encoded RNA polymerase recognition sequences, spacer sequences and target complementary sequences, useful in nucleic acid amplification procedures or for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        07-JUN-2001;
15-FEB-2002;
                                               Rat; ss; Syk; kinase; antiinflammatory; anti
                                                                                                                                                                    08-APR-2003
                                                                                                                                                                                                                    ABX15437;
                                                                                                                                                                                                                                                                   ABX15437
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            phage-encoded
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RNAP recognition
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  27-MAR-2003
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  phagocytosis; immune com
immune mediated disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WO200298895-A1.
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                                                                                                                     Syk
                                                                                                                                                                                                                                                                                                                                                                                                                                      281
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            , Vd
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                                                                                                                     kinase
                                                                                                                                                                                                                                                                   standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                  TCTCTCTCTCTCT 295
                                                                                                                                                                                                                                                                                                                                                                                         TCTCTCTCTCTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Page 42; 69pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BP; 8 A; 0 C; 10 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               and target sequence of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         U'ren J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2002US-00077383
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                                                                                                                                                                  (first
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                           immune complex; kinase
                                                                                                                     cDNA specific PCR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     primer; spacer sequence;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  and target sequence
                                               antiarthritic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          polymerase recognition sequence;
                                                                                                                                                                    entry)
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                                                                     immunosuppressive; dermatological;
                                                                                                                                                                                                                                                                   18
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                                                                                                                                                                                                                                                                   ₽P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 15;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
                        antirheumatic; antiasthmatic; ase inhibitor; autoimmune dis
                                                                                                                  primer Rat-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                spacer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 1; Le 7.9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   intermediate
  lupus erythematosus;
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                                                                                                                     Syk.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 18
                      autoimmune
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   duplex;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     27
                      disease;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  tor
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ADJ93047
ID ADJ9304
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AC ADJ9304
XY
DT 03-JUN-
XX
DT 03-JUN-
XX
DE Rat Syk
XX
W Rat; Sy
XW antibod
XW inmune
XW kinase
XW kinase
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                                                                                                                                                                                                                                                                                           5
                                                                                                                                                                                                                                                                                                                                                                                                                            This invention relates to a novel method for preventing phagocytosis of commune complexes comprises introducing an inhibitor of a kinase companies to phagocytic cells associated with an Fc receptor at the membrane of the cells under conditions so that the phagocytic potential cof the cells is inhibited. The method of the invention may have communosuppressive, dermatological, antiinflammatory, antiarthritic, antirheumatic and antiasthmatic activities and may be used as a kinase chibitor. The method and compositions of the invention may be used for modulating the clearance of antibody coated cells, viruses and soluble cantigens by inhibiting phagocytosis and modulating the interaction of commune complexes with cellular to tissue Fc receptors. The method is used for treating autoimmune diseases, immune mediated diseases e.g. asthmatic and immune complexes with cellular to tissue Fc receptors. The method is used contracting and for preventing immune complexes and rheumatoid carthritis, and for preventing immune complexes deposition in tissues e.g. the kidneys and in the joints. The present sequence represents a Rat Syk kinase specific PCR primer used to quantify expression of Rat Sky cDNA in cells treated with antisense oligonucleotides using the method of the invention.
                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       30-SEP-1994;
30-SEP-1994;
07-JUN-1995;
07-JUN-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Preventing phagocytosis of immune complexes used for treating e.g. autoimmune diseases comprises introducing inhibitor of kinase endogen to phagocytic cells associated with Fc receptor at membrane of cells.
                                                                                         Rat Syk mRNA RT-PCR
                                                                                                                         03-JUN-2004
                                                                                                                                                                                     ADJ93047 standard;
                                                                                                                                                                                                                                                                                                                                                                                         Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2003-165571/16.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         rheumatoid arthritis; primer; PCR; Rat-5
                                                                                                                                                                                                                                                                                             533 TGGCAACATCACCCG
                                                                                                                                                                                                                                                                w
                                                                                                                                                                                                                                                                                                                            15; Conserv
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                                                                                                                                                                                                                                                                TGGCAACATCACCCG
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                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                     BP; 4
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                                                                                                                         (first entry)
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94US-00316425.
95US-00483530.
96US-00657884.
98US-00158980.
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                                                                                                                                                                                      DNA;
                                                                                         primer #1.
                                                                                                                                                                                                                                                                                                                       100.0%; ...
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                                                                                                                                                                                                                                                                                                                                                          0.3%;
                                                                                                                                                                                                                                                                                                                                                                                       C; 4 G; 4 T; 0 U;
                                                                                                                                                                                      18
                                                                                                                                                                                                                                                                                             547
                                                                                                                                                                                                                                                                17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 English
                                                                                                                                                                                     ВP
                                                                                                                                                                                                                                                                                                                            score 15; DB; Pred. No. 7.9
                                                                                                                                                                                                                                                                                                                                          DB 1; Lo
                                                                                                                                                                                                                                                                                                                                                                                         0 Other;
                                                                                                                                                                                                                                                                                                                                                        Length 18;
                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                             0
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endogenous
                                                                                                                                                                                                                                                                                                                            Gaps
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Rat; Syk; antisense oligodeoxynucleotide; ss; antibody-coated cell clearance; Fc receptor; phagocytosis; immune complex clearance; IgE receptor Fc-epsilon-RI gamma subunit; kinase inhibitor; immunological disorder; autoimmune disorder;

antiasthmatic; ODN;

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BXAXAXB
                                                                                                                                                                                                                                                                                                              RESULT 1260
ADN06374
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                                                                                                                                                                                                            ş
                                                                                                                                                                                                                                                                                                                                                  The invention relates to the use of constructs and compounds for modulating or regulating the clearance of antibody-coated cells or immune CC complexes from a mammal, comprising inhibiting the phagocytic potential CC of cells bearing FC receptors. The invention also relates to preventing CC phagocytosis of immune complexes in a mammal, preventing the clearance of CC immune complexes from a mammal, inhibiting the binding of immune complexes in a mammal to membrane-bound FC receptors; inhibiting the signal transduction of the gamma subunit of the IgE CC receptor FC-epsilon-RI. A method of preventing phagocytic of the IgE CC complexes pression-RI. A method of preventing phagocytic cells of the CC mammal that are in contact with the immune complexes an inhibitor of a CC kinase endogenous to the cells associated with an FC receptor present at the useful for modulating or regulating the clearance of antibody-coated CC ells or immune complexes from a mammal by inhibiting the phagocytic cells bearing FC receptors. The method is useful for inhibiting phagocytosis. The methods are also useful for treating CC inhibiting phagocytosis. The methods are also useful for treating CC diseases including asthma. This sequence represents a reverse CC transcriptase PCR (RT-PCR) primer used to amplify rat Syk mRNA used in CC the scope of the invention.
                                                                                                                                                                                                                                            Query Match
Best Local S
Matches 15
Human FLAP related microsatellite marker SEQ ID NO:22
                                15-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Use of constructs and compounds for modulating or regulating the clearance of antibody-coated cells or immune complexes from a mamm comprises inhibiting the phagocytic potential of cells bearing FC
                                                                 ADN06374;
                                                                                                ADN06374 standard; DNA; 18
                                                                                                                                                                                                                                                                                                              Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   07-JUN-1995;
07-JUN-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   30-SEP-1993;
30-SEP-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RT-PCR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 6; Page 11; 26pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2004-238511/22.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Schreiber AD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (UYPE-) UNIV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14-SEP-1998;
20-MAR-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   13-AUG-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US2004048781-A1.
                                                                                                                                                                                                  533 TGGCAACATCACCCG 547
                                                                                                                                                                                                                                              15;
                                                                                                                                                                               w
                                                                                                                                                                                                                                                               Similarity
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H
                                                                                                                                                                                                                                                                                                            BP; 4 A; 6 C; 4 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; 93US-00129381.
; 94US-00316425.
95US-00483530.
; 96US-00657884.
; 98US-00158980.
; 2001US-00811492.
                                                                                                                                                                                                                                              Conservative
                                (first entry)
                                                                                                                                                                                                                                                                                                                                           the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PENNSYLVANIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2003US-00639662.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Park J;
                                                                                                                                                                                                                                                             100.0%;
                                                                                                                                                                                                                                                                              0.3%;
                                                                                                ВÞ
                                                                                                                                                                                                                                              0
                                                                                                                                                                                                                                                             Score 15;
Pred. No.
                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                           DB 1; L. 7.9e+02;
                                                                                                                                                                                                                                              0
                                                                                                                                                                                                                                                                           Length 18;
                                                                                                                                                                                                                                              Indels
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The present invention describes using a leukotriene synthesis inhibitor (I) for the manufacture of a medicament for the treatment of myocardial confinenciation or susceptibility to myocardial infarction in an individual. CC Also described is a method (M1) for the treatment of acute coronary CC syndrome (ACS) in an individual comprising administering (I). (I) has CC antiatherosclerotic, cardiant and antianginal activities, and can be used CC as a leukotriene biosynthesis inhibitor, and a leukotriene receptor CC anteagonist. (I) can be use for the manufacture of a medicament for the cCC treatment of myocardial infarction or susceptibility to myocardial CCC infarction in an individual who has at least one risk haplotype in CC infarction in an individual who has at least one risk factor chosen from CCC and and an at-risk polymorphism in the 5-lipoxygenase (5-CC LO) gene promoter; in an individual who has at least one risk factor (CC LO) gene promoter; in an individual who has at least one risk factor (CC Infammatory marker chosen from C-reactive protein (CRP), serum amyloid CC inflammatory marker chosen from C-reactive protein (CRP), serum amyloid CC A, fibrinogen, leukotriene, leukotriene metabolite, interleukin-6, tissue CC metalloprotease type-1, matrix metalloprotease type-2, matrix (CC metalloprotease type-3 and matrix metalloprotease type-2, matrix (CC metalloprotease type-3 and matrix metalloprotease type-9; in an individual having increased leukotriene synthesis; in an individual having chesterol (CC reactive protein (LPD) cholesterol, in an individual having increased leukotriene synthesis; in an individual having chesterol (CC madromesome troe or in an individual who has at heroselerosis or who creating an individual suffering from acute coronary syndrome (ACS) cevent, stable angina; or in an individual who has atheroselerosis or who creating an individual and suffering from acute coronary syndrome chosen from chosen in invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           leukotriene synthesis inhibitor; myocardial infarction; acute coronary syndrome; antiatherosclerotic; cardiant; antianginal; leukotriene biosynthesis inhibitor; leukotriene receptor antagonist; 5-lipoxygenase activating protein; FLAP; human; chromosome 13; chromosome 13q12; polymorphism; 5-lipoxygenase gene promoter; diabetes; hypertension; hypercholesterolaemia; besity; inflammatory marker; low density lipoprotein; cholesterol; high density lipoprotein; angina; atherosclerosis; microsatellite marker; high density lipoprotein; angina; atherosclerosis; microsatellite marker;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Use of leukotriene synthesis inhibitor for for treatment for myocardial infarction or infarction in individual.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure; SEQ ID NO 22; 306pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2004-357211/33.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           17-OCT-2002; 2002US-0419433P.
21-FEB-2003; 2003US-0449331P.
present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Helgadottir A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        16-OCT-2003; 2003WO-US032556
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO2004035741-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (DECO-) DECODE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EHF.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 a medicament
to myocardial
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Query Match

Sequence

18

BP; 1 A;

7 C; 5 G; 5 T; 0 U; 0 Other;

Score 15;

DB 1; Length 18;

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RESULT 1262
AAX58088/c
ID AAX5808
XX
AC AAX5808
XX
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AAT30405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             밁
                                                                                                                             Query Match
Best Local
                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local Similarity Matches 15; Conserv
                                                                                                                                                                          Detecting polymorphisms between 2 nucleic acid samples, esp. in microsatellite regions, comprises digesting the nucleic acid to generate fragments, ligating adaptor segments to their ends, amplifying them using primer directed amplification and comparing the prods. to detect differences. The primers used in the amplification comprise a primer consisting of a perfect cpd. simple sequence repeat (SSB), and an adaptor directed primer, comprising a sequence complementary to an adaptor segment. The present sequence is an example of a compound SSR primer. The method represents a modified amplified fragment length polymorphism assay, which is partic. useful for genome fingerprinting, i.e. for genetic trait marking and germplasm comparisons
           AAX58088
                                                                                                                                                            Sequence 19
                                                                                                                                                                                                                                                                                                                      polymorphism
                                                                                                                                                                                                                                                                                                                                                                                                                                                      06-JUN-1996.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Detection; polymorphism; perfect compound simple sequence repeat; adaptor directed primer; genome; genetic; fingerprinting; amplified fragment length polymorphism assay; microsatellite region;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAT30405
                              AAX58088 standard; DNA;
                                                                                                                                                                                                                                                                                                    Example
                                                                                                                                                                                                                                                                                                                                                      WPI; 1996-277795/28.
                                                                                                                                                                                                                                                                                                                                                                                                              28-NOV-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                   21-NOV-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28-JAN-1997
                                                                                                                                                                                                                                                                                                                                                                       Morgante M,
                                                                                                                                                                                                                                                                                                                                                                                            (DUPO ) DU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO9617082-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Compound simple sequence repeat primer (CT)7.5(AT)2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4999
                                                                                                  281
                                                                               N
                                                                                                                     15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2 TGCTCTCCAGCCTGG 16
                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                       amplified fragment length polymorphism assay -
hism esp. in micro:satellite regions.
                                                                                                 TCTCTCTCTCTCT 295
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           standard; DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TGCTCTCCAGCCTGG
                                                                                                                                                                                                                                                                                                  Page 84; 173pp; English.
                                                                                                                                                                                                                                                                                                                                                                                            PONT DE NEMOURS & CO
                                                                                                                                                           BP; 2 A; 8 C; 0 G; 9 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              marking; germplasm
                                                                                                                                                                                                                                                                                                                                                                                                               94US-00346456
                                                                                                                                                                                                                                                                                                                                                                                                                                   95WO-US015150
                                                                                                                             0.3%;
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                              19
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                              ВP
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                                                                                                                             Score 15; pred. No.
                                                                                                                    0,
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; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                             M
                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               comparisons; compound; ss
                                                                                                                              No.
                                                                                                                              8.5e+02;
                                                                                                                                       DB 1;
                                                                                                                    <u>,</u>
                                                                                                                                      Length 19;
                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
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                                                                                                                    Gaps
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ZZZZZZZZZZZZZ
                                                                                                                                                                                                                                       RESULT 1263
AAZ72202/c
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                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                   Query Match
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                                                                                                         AAZ72202 standard; DNA; 19
                                                                                                                                                                                                                                       Sequence 19
                                                                                                                                                                                                                                                                                                                                                                                                             Polynucleotides encoding human and canine gamma aminobutyric acid type B receptors, used to screen for compounds that are inhibitors of transient
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              27-OCT-1997;
16-MAR-1998;
                                               Human
                                                                   10-SEP-2001
                                                                                       AAZ72202;
                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 1999-302985/25
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ekstrand
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                06-MAY-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                     lower
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             27-OCT-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO9921890-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PCR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (ASTR ) ASTRA
                                                                                                                                                                                                          Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      sapiens
                                                                                                                                                                                                                                                                                                                                                                                                    esophageal sphincter relaxations.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            receptor;
ient lower
                                                                                                                                                           19
                                                                                                                                                                                                 15;
                                                                                                                                                                                                          Similarity
                                                                                                                                                           CTCTCCCCGGGCCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     88
                                                                                                                                                                                                                                      B₽;
                                                                                                                                                                                                 Conservative
                                                                   (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
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B
                                                                                                                                                                                                                                      3 A; 5 C; 9
                                                                   entry)
                                                                                                                                                                                                          100.0%;
                                                                                                                                                                                                                   0.3%;
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                                                                                                                                                                                                                                      G; 2 T; 0 U; 0 Other;
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transient lower oesophageal sphincter relaxation; spasticity; emesis; gastro-oesophageal reflux disease; epilepsy; psychiatric disorder; TLESR; irritable bowel syndrome; dyspepsia; arthritis; allergy; diagnosis; autoimmune disease; neoplastic disease; infectious disease; therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PCR primer for human GABAB receptor la coding
97SE-00003914.
98SE-00000864.
98SE-00002575.
                                                                                                                                        98WO-SE001947
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       gamma aminobutyric acid type B recoesophageal sphincter relaxation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    inhibitor;
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This sequence represents a PCR primer for DNA encoding a human gamma aminobutyric acid type B (GABAB) receptor of the invention. Nucleic acid molecules encoding GABAB receptors can be used to screen for compounds that are inhibitors of transient lower ossophageal sphincter relaxations (TLESR). They can also be used to screen for agonists or antagonists of the GABAB receptors. Inhibitors of TLESR are useful for treating gastrocesphageal reflux disease. Other uses of GABAB receptors, such as human GABAB Rlc or 1d, comprise diagnosis or treatment of conditions related to GABAB dysfunction, e.g. epilepsy, psychiatric disorders, emesis, irritable bowel syndrome, dyspepsia, spasticity, arthritis, allergies, autoimmune diseases, neoplastic diseases, pain and infectious disease Example 1; Page 14; 222pp; English. ő

CTCTCCCCGGGCCTC 1247 0; Score 15; DB; Pred. No. 8.5 DB 1; 2; 3. 8.5e+02; 0; Length 19 Indels 0 Gaps

0

ВP

biallelic marker upstream amplification primer SEQ ID NO:6558

genomic map; haplotype; phenotype; polymorph haplotyping; hybridisation; identification; amplification; single nucleotide polymorphi: Human genome; biallelic marker; high density disequilibrium map; genomic map; haplotype; phenotype; bolymorphic hase denotype; polymorphic characterisation;

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RESULT 1264
ADD69477/c
ID ADD6947
XX
AC ADD6947
XX
DT 15-JAN-
XX
Of inter-
KW inter-
KW animal;
XX
OS Synthet
XX
OS Synthet
XX
OS OS-JAN-
XX
PP 09-JAN-
XX
PR 08-APR-
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Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          nucleotide sequences. AAZ69579 to AAZ777440 represent amplification primers for the biallelic markers. The biallelic markers of the invention have a variety of uses: they can be used for high density mapping of the human genome, and in complex association studies and haplotyping studies which are useful in determining the genetic basis for disease states. Compositions and methods of the invention can also be useful for the identification of the targets for the development of pharmaceutical agents and diagnostic methods, as well as the characterisation of the differential efficacious responses to and side effects from pharmaceutical agents acting on a disease as well as other treatment. N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and 3367, are not actually given a sequence in the Sequence Listing from the present invention.
  08-APR-2002; 2002IN-CH000260
                              09-JAN-2003; 2003WO-IB000041.
                                                                                                                                            inter-simple sequence repeat; ISSR; SSR; PCR; primer; genotyping; plant; animal; Basmati rice; ss.
                                                                                                                                                                                      3' anchored
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2000-013267/01.
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23-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        diagnosis; ss
                                                                                      WO2003085133-A2
                                                                                                                                                                                                                                            ADD69477;
                                                                                                                                                                                                                                                                        ADD69477 standard; DNA; 19 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAZ65654 to AAZ69578 represent human biallelic markers from the present invention, which contain a polymorphic base at position 24 of their
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        map of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Novel biallelic markers used to construct a high density disequilibrium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO9954500-A2
                                                          16-OCT-2003
                                                                                                                                                                                                                15-JAN-2004
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                                                                                                                                                                                                                                                                                                                                                                     1034 GCTTCCAGAAGAGCA 1048
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                                                                                                                                                                                                                                                                                                                                                                                                   l Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Page 1629;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Blumenfeld
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       human genome.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         BP; 2 A;
                                                                                                                                                                                   (ISSR) - PCR primer - SEQ ID 35
                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    98US-0082614P.
98US-0109732P.
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                                                                                                                                                                                                                                                                                                                                                                                                   0;
                                                                                                                                                                                                                                                                                                                                                                                                             Score 15; DB 1; L
Pred. No. 8.5e+02;
                                                                                                                                                                                                                                                                                                                                                                                                   mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ή,
                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
                                                                                                                                                                                                                                                                                                                                                                                                                                                       U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                   0
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20-FEB-2002; 2002US-0358580P.
11-MAR-2002; 2002US-0363124P.
29-MAY-2002; 2002WS-0386782P.
06-UNN-2002; 2002US-0386782P.
03-JUL-2002; 2002US-0393796P.
29-JUL-2002; 2002US-0406784P.
05-SEP-2002; 2002US-0406378P.
05-SEP-2002; 2002US-0408378P.
05-SEP-2002; 2002US-0408378P.
04-NOV-2002; 2002US-0409293P.
04-NOV-2002; 2002US-0409749.
27-NOV-2003; 2003US-0440129P.

WO2003070910-A2

2003WO-US005022

sapiens.

cancer;

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RESULT 1265
ADF37284
ID 37284
XX ADF3728
XX 
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Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               short interfering nucleic acid; siNA; downregulation; vascular endothelial growth factor receptor; VEGFR; antiangiogenicytostatic; antidiabetic; ophthalmological; antiarthritic; antipsnephrotropic; gynaecological; angiogenesis-associated condition; diabetic retinopathy; macular degeneration; neovascular glaucoma; arthritis; psoriasis; endometriosis; angiofibroma; polycystic kidney disease; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to a novel set of inter-simple sequence repeats (ISSR)-PCR primers for genotyping eukaryotes. The primers of the invention may be useful for genotyping diverse genomes of plant and animal systems, in particular for distinguishing Basmati rice varieties from non-Basmati rice varieties and traditional Basmati rice varieties from evolved Basmati rice varieties. The current sequence is that of the 3' anchored (ISSR)-PCR primer of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 19 BP; 9 A; 1 C; 7 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New set of inter-simple sequence repeats (ISSR)-PCR primers for genotyping eukaryotes, useful for genotyping diverse genomes of plant and animal systems.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human VEGFR3 short interfering nucleic acid (siNA)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 1; SEQ ID NO 35; 60pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2003-804317/75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    double-stranded short interfering nucleic acid;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADF37284 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (DNAF-) CENT DNA FINGERPRINTING & DIAGNOSTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.3%; Score 15;
100.0%; Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8.5e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
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RESULT 1266
ADF37531/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local
 20-FEB-2002;
11-MAR-2002;
29-MAY-2002;
                                                                                                                                                                                                                                    double-stranded short interfering nucleic acid; short interfering nucleic acid; siNA; downregulation; short interfering nucleic acid; siNA; downregulation; vascular endothelial growth factor receptor; VEGFR; antianglogenic; cytostatic; antidiabetic; ophthalmological; antiarthritic; antipsoriatic; nephrotropic; gynaecological; anglogenesis-associated condition; cancer; diabetic retinopathy; macular degeneration; neovascular glaucoma; arthritis; psoriasis; endometriosis; anglofibroma; polycystic kidney disease; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New double-stranded interfering nucleic acid, useful e.g. for treatment and diagnosis of cancer, downregulates the vascular endothelial growth factor receptor gene.
                                                                                                                                                                                                                                                                                                                                                                                                     Human VEGFR3 short interfering nucleic acid (siNA)
                                                                                                                                                                                                                                                                                                                                                                                                                                             12-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADF37531 standard; RNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                        20-FEB-2003;
                                                                                                                                              WO2003070910-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (RIBO-) RIBOZYME PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2831 GGAGCTGGTGGTGAA 2845
                                                                                                                                                                                  sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 Similarity
12; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GGAGCUGGUGGUGAA 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BP; 3 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
2002US-0358580P.
2002US-0363124P.
2002WO-US017674.
                                                                        2003WO-US005022
                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ID NO 1573;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2 C; 9 G; 0 T; 5 U; 0 Other;
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Pred. No. 8.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 19;
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                                                                                                                                                                                                                                                                                                                                                                                                       SEQ
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                                                                                                                                                                                                                                                                                                                                                                                                       NO:1820
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06-JUN-2002; 2002US-0386782P.
03-JUL-2002; 2002US-0393796P.
29-JUL-2002; 2002US-039348P.
29-AUG-2002; 2002US-0406784P.
05-SEP-2002; 2002US-0408378P.
09-SEP-2002; 2002US-0409293P.
04-NOV-2002; 2002US-0287949.
27-NOV-2002; 2002US-0036747.
15-JAN-2003; 2003US-0440129P.
                                                         ophthalmological, antiarthritic, antipsoriatic, nephrotropic and gynaecological activities. The siNA are useful for modulating (downregulating) the expression of VEGFR genes. The siNA are potentially useful for treating a wide range of angiogenesis associated conditions, particularly cancers, diabetic retinopathy, macular degeneration, neovascular glaucoma, arthritis, psoriasis, endometriosis, angiofibroma, and polycystic kidney disease. The siNA may also be useful for diagnosis, drug screening, target identification and validation, genetic engineering, studying gene function, and also for gene mapping (e.g. of single-nucleotide polymorphisms). The present sequence is used in the
                                                                                                                                                                                                                                                                    The present invention describes a double-stranded short interfering nucleic acid (siNA) that downregulates expression of the vascular endothelial growth factor receptor (VEGFN) gene. Also described: (1) a siNA that downregulates the VEGF gene; (2) kits for in vitro or in vivo delivery of siNA; (3) conjugates and/or complexes of siNA; (4) vectors that express siNA; and (5) single-stranded siNA with similar properties. The siNAs have antianglogenic, cytostatic, antidiabetic, cytostatic, antidiabetic,
  Sequence 19
                                         exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 3; SEQ ID NO 1820; 207pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (RIBO-) RIBOZYME PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                double-stranded interfering nucleic acid, useful e.g. for treatment diagnosis of cancer, downregulates the vascular endothelial growth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2003-679876/64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               receptor
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BP; 5 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Beigelman L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             gene
9 C; 2
G; 0 T; 3 U; 0 Other;
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밁 S Matches Query Match Best Local (2831 GGAGCTGGTGGAA 2845 17 GGAGCTGGTGGTGAA 15; Similarity Conservative 100.0%; 0.3%; w 0 Score 15; Pred. No. Mismatches DB 1; 1 8.5e+02 Length 19 0; Gaps 0

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RESULT 1267
AAT30401/c
                                                                                                    adaptor directed primer; amplified fragment lenor!
                                                                                           genetic
                                                                                                                                   Detection;
                                                                                                                                                           Compound simple sequence repeat primer (AT)3.5(AG)7.5.
                                                                                                                                                                                                                                           AAT30401 standard; DNA; 20
                                                                                                                                                                                       28-JAN-1997
                                                                                        polymorphism; perfect compound simple sequence repeat; rected primer; genome; genetic; fingerprinting; rected primer; genome; genetic; fingerprinting; fragment length polymorphism assay; microsatellite region; ait marking; germplasm comparisons; compound; ss.
                                                                                                                                                                                     (first entry)
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06-JUN-1996

Synthetic

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RESULT 1268
AAZ01588/c
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Best Local Similarity
Matches 15; Conser
                                                                                                          28-NOV-1997;
17-DEC-1997;
04-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Detecting polymorphisms between 2 nucleic acid samples, esp. in microsatellite regions, comprises digesting the nucleic acid to generate fragments, ligating adaptor segments to their ends, amplifying them using primer directed amplification and comparing the prods. to detect differences. The primers used in the amplification comprise a primer consisting of a perfect cpd. simple sequence repeat (SSR), and an adaptor directed primer, comprising a sequence complementary to an adaptor segment. The present sequence is an example of a compound SSR primer. The method represents a modified amplified fragment length polymorphism assay, which is partic. useful for genome fingerprinting, i.e. for genetic trait marking and germplasm comparisons
                                                                                                                                                                                                                                                                                       Vaccine; eye disease; conventional trachoma; nonendemic trachoma; paratrachoma; inclusion conjunctivitis; genital disease; perihepatitis; nongonococcal uretritis; epidymitis; cervicitis; salpingitis; PCR prime bartholinitis; pneumopathy; venereal lymphogranulomatosis; ss.
                            WPI; 1999-371125/31.
                                                      Griffais
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 20 BP; 10 A; 0 C; 7 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Modified amplified fragment length polymorphism assay - for detection polymorphism esp. in micro:satellite regions.
                                                                                                                                                                                                                        WO9928475-A2
                                                                                                                                                                                                                                                               Synthetic
                                                                                                                                                                                                                                                                                                                                                                                        07-OCT-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                             AAZ01588
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Morgante M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                21-NOV-1995;
                                                                                                                                                                 27-NOV-1998;
                                                                                                                                                                                             10-JUN-1999
                                                                                                                                                                                                                                                  Chlamydia trachomatis
                                                                                                                                                                                                                                                                                                                                                           PCR primer used to amplify an ORF of Chlamydia trachomatis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (DUPO ) DU
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                                                                                  (GEST ) GENSET
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sequence of Chlamydia trachomatis.
                                                                                                                                                                                                                                                                                                                                                                                                                                           standard; DNA; 20
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RESULT 1269
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               against Chlamydia trachomatis. Antisense and ribozyme sequences can also be used to control growth of the microorganism. Chlamydia trachomatis is responsible for a large number of diseases, e.g. eye diseases such as conventional trachoma, nonendemic trachoma, paratrachoma, and inclusion conjunctivitis; genital diseases such as nongonococcal uretritis, epidymitis, cervicitis, salpingitis, perihepatitis, bartholinitis; pneumopathy in breast feeding infants; and venereal lymphogranulomatosis. The polypeptides of the invention may be of use in treating these
                          Antisense oligonucleotides for treating hepatitis and colon, liver or lung cancer are inhibitors of Fas, Fas ligand or Fas associated prote (Fap-1) expression.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PCR primers AAZ01426-Z06209 were used to amplify open reading frames (ORFs) of the genome of Chlamydia trachomatis (see AAZ01425). These ORFs encode polypeptides (see AAX36754-Y37949) which can be used as vaccines
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         modified_base
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9.2e+02;
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RESULT 1270
AAH56781/c
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XX O6-SEP-
XX Antisen
KW microox
KW microox
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XX Staphy]
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Best Local (
The present invention specifically claims AAH56368 to AAH56832 which are antisense oligonucleotides to nucleotide sequences encoding groE. More generally, antisense compounds (I) comprising antisense oligonucleotides of 5-50 bases targeted to a nucleotide sequence encoding groEL (heat shock protein (HSP)60) (GL) and groES (HSP)10) (GS) gene from a microorganism, where the antisense compound is complementary to GL or GS of a microorganism and specifically hybridises with and inhibits the expression of GL or GS, is claimed. (I) have antibacterial, antiviral and antiproliferative activities, and can be used in antisense therapy and for inhibition of expression of groES or groEL. (I) are useful for inhibiting expression of GL or GS in cells or tissues in vitro. (I) are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAC61841-58 represent antisense oligonucleotides which are directed against nucleic acids encoding human Fap-1 (Fas associated protein 1, protein tyrosine phosphatase). The specification describes antisense compounds which are targeted to the 5'-untranslated region, translational start site, translational termination region or 3'-untranslated region of nucleic acid molecules encoding Fas, Fas ligand (Fast), or Fap-1. The antisense compounds are used to inhibit the expression of Fas, Fast or Fap-1 in cells or tissues. They are used to treat autoimmune or inflammatory diseases such as hepatitis. They can also be used to treat cancer, especially colon, liver or lung cancer or lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Antisense oligonucleotide; groE; groEL; groES; inhibitor; growth; microorganism; Escherichia coli; Streptcocccus pneumoniae; diagnosis; Streptcocccus pyogenes; Staphylococcus aureus; Pseudomonas aeruginosa; antibacterial; antiviral; antiproliferative; antisense therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        18-NOV-1999;
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9.2e+02;
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RESULT 1271
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Best Local (
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                                                                                                                                                                                                                                                 29-MAY-1999;
29-MAY-1999;
29-MAY-1999;
                                                  Novel oligonucleotide sequences of internal transcribing spacer region non-tuberculosis mycobacteria (NTM) used as probes or primers for detecting and identifying mycobacteria and distinguish TB complex from
                                                                                                                                                               (SJHI-)
(KIMC/)
(PARK/)
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KIM C M.
PARK H K.
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99KR-00019632.
99KR-00019633.
99KR-00019634.
99KR-00019635.
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Claim

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Page

89pp; English

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RESULT 1272
ABN79637/c
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Best Local Similarity
Matches 15; Conser
This invention relates to an antisense compound encoding Fas, Fas ligand, or Fas associated protein-1 (Fap-1). The inhibition of Fas mediated signalling is thought to be immunosuppressive, antiinflammatory, hepatotropic, cytostatic and vasotropic. Antisense oligonucleotides were
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                                                                                                                                                                                                   Novel antisense compound targeted to nucleic acid encoding Fas, ligand or Fas associated protein-1 is useful for inhibiting exp Fas, Fas ligand, or Fap-1 in cells or tissues, and for treating
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(MARC/)
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18-SEP-2000; 2000US-00665615.
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The present invention describes compounds of 8-30 to a nucleic acid encoding human or mouse tumour r

necrosis

factor receptor

nucleobases antisense

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RESULT 1273
ABQ74856/c
ID ABQ7485
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Best Local S
Matches 15
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                                                      New compounds antisense to nucleic acid encoding human necrosis factor receptor 2 are useful to treat disease mouse tumor necrosis factor receptor 2 expression.
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                                 Claim
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phosphorothioate; 2'-O-methoxyethyl; ss.
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                                50; 69pp; English.
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e= "2'-O-methoxyethyl nucleotides"
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                                                                   or mouse tumor associated with
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ACC73317/c
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                                                                                                                                                                                                                                     The invention relates to a microarray comprising a support, a first probe for genotyping Mycobacterium species, second probe for differentiating Mycobacterium therculosis strains, and a third probe for detecting antibiotic-resistant strains, where the probes are immobilized on the support. This sequence represents an example of the first probe used for genotyping Mycobacterium species. The array is useful for simultaneously genotyping Mycobacterium species, differentiating M. tuberculosis strains and detecting antibiotic-resistant strains
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Microarray for simultaneously genotyping Mycobacteria species, differentiating Mycobacterium tuberculosis strains and detecting antibiotic-resistant strains, comprises specific probes on a support of the strains of t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      or mouse TNFR2 comprising contacting cells or tissues in vitro with or of the claimed compounds. The antisense compounds are used to treat a disease or condition associated with expression of TNFR2. The present sequence represents a mouse TNFR2 antisense chimeric phosphorothicate oligonucleotide, which is given in the present invention
                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 12; Page 51; 76pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Kim C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             09-OCT-2001; 2001KR-00062125
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KIM C.
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Pred. No.
                                                                                                                  Score 15;
Pred. No.
                                                                                              Mismatches
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hes 0;
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                                                                                                                                                                                                                                                                                                    RESULT 1276
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CC The invention relates to a novel polynucleotide isolated and purified CC from a human gene having any one of 935 fully defined sequences as given CC in specification, or a sequence having a base substitution. The invention CC further relates to: an oligonucleotide containing single nucleotide polymorphisms; a PCR primer set chosen from the combination of two DNA CC fragments from any one of 1220 fully defined sequences as given in CC specification; a labelling probe containing the SNP containing oligo; and CC amicroarray equipped with the SNP containing oligo. The isolated human CC gene of the invention is useful for detecting the single nucleotide CC polymorphisms in human gene. The isolated human gene is also useful for CC fie isolated human gene is also useful for CC The isolated human gene is also useful for CC The isolated human gene. This polynucleotide sequence represents CC one of the PCR primers used in the single nucleotide polymorphism CC detection method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
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                                                                                                                                                                                          ADH70903;
                                                                                                                                                                                                                                              ADH70903 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 2; SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 in human
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4 A; 4 C; 7 G; 5 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                              DNA;
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human; T-cell associated disease; Vbeta; autoimmune degenerative nervous system disease; graft versus ho

disease;

Human

Vbeta

PCR primer #47.

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AXU
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ADK97648/c
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Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                              including autoimmune diseases, degenerative nervous system diseases, correct years and neoplastic diseases. Autoimmune diseases include Addison's diseases, atrophic gastritis. Degenerative nervous system diseases include multiple selections and Alzheimer's disease. Hypersensitivity diseases include multiple selections such as contact with allergens that lead to allergies. Type II hypersensitivities such as those present in Goodpasture's syndrome and Type IV hypersensitivities such as those present manifested in leptosy. Infectious diseases include viral infections manifested in leptosy. Infections diseases include viral infections caused by viruses such as HIV, fungal infections such as those caused by the yeast genus Candida, parasitic infections such as those caused by schistosomes, filaria and bacterial infections such as those caused by schistosomes, filaria and bacterial infections such as those caused by schistosomes, filaria and bacterial infections as the caused by schistosomes, filaria and bacterial infections and as those caused by schistosomes, filaria and bacterial infections and as those caused by schistosomes, filaria and bacterial infections and as those caused by schistosomes, filaria and bacterial infections and as those caused by schistosomes, filaria and bacterial infections and as those caused by schistosomes, filaria and bacterial infections and as those caused by schistosomes, filaria and bacterial infections and as those caused by schistosomes, filaria and bacterial infections and as those caused by schistosomes, filaria and bacterial infections and as those caused by schistosomes, filaria and bacterial infections and as those caused by schistosomes, filaria and bacterial infections and a those caused by schistosomes and cancers such as those processes.
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ADK97648
                                                ADK97648 standard;
                                                                                                                                                                                                                                                                                                                                                                     Sequence 20 BP; 10 A; 4 C; 5 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Kit for diagnozing and treating T-cell associated diseases e.g. autoimmune, degenerative nervous system and infectious disease, compuncteic acid primers specifically priming and allowing amplification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       associated diseases which comprises a panel of nucleic acid primers specifically priming and allowing amplification of each Vbeta gene. VbetaRNA or cDNA. The kit is useful for diagnosing organ transplant rejection and diagnosing and treating T-cell associated diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to a kit for diagnosing and treating
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19-SEP-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US2002150891-A1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 breast cancer;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      HIV; fungal infection; Candida; parasitic infection; schistosome;
filaria; bacterial infection; Mycobacterium; neoplastic disease;
lymphoproliferative disease; leukaemia; lymphoma; cancer; brain cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            hypersensitivity disease; infectious disease; neoplastic disease; addison's disease; atrophic gastritis;
                                                                                                                                                                                                                      3469
                                                                                                                                                                                                                                                                       1 Similarity
15; Conserv
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                                                                                                                                                                                                  GGACACAGGAGTCAA 3483
                                                                                                                                                                        GGACACAGGAGTCAA 15
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                                                                                                                                                                                                                                                                       Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          94US-00309335.
95US-00531241.
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                                                DNA;
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                                                                                                                                                                                                                                                                                                Score 15;
Pred. No.
                                                                                                                                                                                                                                                                       Mismatches
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                                                                                                                                                                                                                                                                                                                     Length 20;
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RESULT 1278
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PT PT XXX
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention relates to a polynucleotide isolated from a gene and is useful for detecting a single nucleotide polymorphism human gene or for diagnosing of disease. The invention enables the detection of a single nucleotide polymorphism in a human gene. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     fragment from another so
nucleotide polymorphism
                                                                                                                                                                    Synthetic
                                                                                                                                                                                                             Primer of the
                                                                                                                                                                                                                                 06-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 20 BP; 2 A; 8 C; 4 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                    present sequence represents a primer of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 2; SEQ ID NO 6677; 2627pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Novel polynucleotide useful for PCR amplification along with two DNA fragment from another set of sequences, or for detecting single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         08-MAR-2002; 2002JP-00064373
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                                        WPI; 2004-093977/10.
                                                                                 08-MAR-2002; 2002JP-00064373
                                                                                                     08-MAR-2002; 2002JP-00064373
                                                                                                                            16-SEP-2003
                                                                                                                                               JP2003259875-A
                                                                                                                                                                                       human; single nucleotide polymorphism; SNP; ss; primer
                                                                                                                                                                                                                                                        ADK94731;
                                                                                                                                                                                                                                                                            ADK94731 standard;
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                                                                                                                                                                                                                                                                                                                                                                                 Local Similarity
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                                                             KAGAKU
                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                  (first entry)
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                                                                                                                                                                                                             invention
                                                            GIJUTSU SHINKO JIGYODAN
                                                                                                                                                                                                                                                                            DNA;
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Pred. No.
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Novel polynucleotide useful for PCR amplification along with two DNA fragment from another set of sequences, or for detecting single nucleotide polymorphism in human gene.

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RESULT 1279
ADL27692/c
ID ADL2769
XX CO-MAY-
XX Human F
XX FAS ass
XX Cytosts
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Matches 15
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                        The present invention relates to antisense compounds targeted to nucleic acids encoding human Fas (also known as Apo-1 or CD95), Fas ligand (FasH, also Apo-1) and CD951), and Fas associated protein 1 (Fag-1). The antisense compound comprises an antisense oligonucleotide that specifically hybridises with one of the said nucleic acids and inhibits Fas, FasH or Fap-1 mediated signal transduction. The antisense oligonucleotide is a chimeric oligonucleotide. The antisense
                                                                                                                                                                                                                                                                              New antisense oligonucleotides of 20-50 nucleobases, useful for treating autoimmune or inflammatory diseases, and cancer.
                                                                                                                                                                                                                                                                                                                                                                     WPI; 2004-050524/05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             18-SEP-2000;
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                                                                                                                                                                                                                                      Example
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                                                                                                                                                                                                                                SEQ ID NO 53; 76pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            erapy; human; Fas; Fas ligand; FasL; Apo-1L; CD95L;
ed protein 1; Fap-1; signal transduction; autoimmune disease;
disease; cancer; immunosuppressive; antiinflammatory;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2000US-00665615
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/note= "This oligonucleotide has a phosphorothioate backbone and 2'-methyoxyethyl (2'-MOE) wings at the and 3' ends, which are 5 nucleotides in length at ea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
modified internucleoside linkage
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ADM53464/c
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18-SEP-2000;
09-MAR-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    modified sugar molety, preferably a 2'-O-methoxyethyl (2'-MOE) sugar molety. The antisense oligonucleotide further comprises at least one modified nucleobase, preferably a 5-methylcytosine. The antisense oligonucleotides are useful for the treatment of autoimmune or inflammatory diseases, and cancers associated with overexpression of constitutive activation of Fas, FasL, or Fap-1. The present sequence represents an antisense oligonucleotide used in the examples of the
                                                                                   (DEAN/)
(MARC/)
(WYAT/)
(ZHAN/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          immunosuppressive; antiinflammatory; hepatotropic; virucide; cytostatiantisense technology; Fas; Fas ligand; Fap-1; Fas associated disorder; Fap-1 associated disorder; ischaemia reperfusion injury; apoptosis; Fap-1 associated disorder; ischaemia reperfusion injury; apoptosis; allograft; autoimmune disease; inflammatory disease; hepatitis; cancer
                                        Dean NM,
                                                                                                                                                                                                                                                                                            14-JUL-2003; 2003US-00619220
                                                                                                                                                                                                                                                                                                                                                                                         US2004033979-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          03-JUN-2004
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                                                                                   DEAN N M.
MARCUSSON
WYATT J.
ZHANG H.
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15; Conserv
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2000US-00665615
2001US-00802669
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are 5-methylcytidines"
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Pred. No.
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9.2e+02;
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WPI; 2004-180091/17

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RESULT 1281
ADC42573
ID ADC4257
PROCESS SOLUTION OF STREET STR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention describes an antisense compound 8-30 or 8-50 nucleobases in clength targeted to the 5'-untranslated region, translational start site, translational termination region or 3'-untranslated region of a nucleoic acid molecule encoding Fas, Fas ligand or Fap-1. Also described are: a pharmaceutical composition comprising the anti-sense compound and a pharmaceutical carrier or diluent; a method of inhibiting the expression of Fas or Fap-1 in cells or tissues: treating an animal having a disease or condition associated with Fas or Fap-1; anda preventing allograft rejection, ischaemia reperfusion injury or apoptosis in an allograft recipient. The antisense compound and pharmaceutical composition is useful in diagnosing, treating or preventing autoimmune or inflammatory disease, e.g. hepatitis, cancer, e.g. cancer of the colon, liver, lung or a lymphoma, apoptosis, allograft rejection, e.g. cardiac, renal, hepatic or skin allograft and ischemia reperfusion injury. This sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local S
Matches 15
                                                                             Diagnosing or determining cancer or increased risk of cancer in a patient, by testing Fanconi Anemia/BRCA pathway gene or protein fi cancer-associated defect, that indicates cancer or increased risk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New antisense compound targeted to nucleic acid molecule encoding Fas or Fap-1, useful in diagnosing, treating or preventing autoimmune or inflammatory disease, cancer, apoptosis, allograft rejection or ischemia
                                                                                                                                                                                                                                                                                                                                                                                       02-NOV-2001; 2001US-00998027.
02-NOV-2001; 2001WO-US045561.
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                                                                                                                                                                                              WPI; 2003-441436/41.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cancer; Fanconi Anaemia; FA; BRCA; cytostatic; microarray;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human FANCD2
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(UYOR-) UNIV
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                                                                                                                                                                                                                                                                                                         FARBER CANCER OREGON HEALTH
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Pred. No.
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9.2e+02;
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                                                                                risk of
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Example 14; Page 100; 160pp; English

complementarity-determining

regions

(CDRs)

of.

human GP-120

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RESULT 1282
ADJ72447;
ID ADJ72447;
XX ADJ72447;
XX ADJ72447;
XX ADJ72447;
XX DE Human GP120 antibody
XX GP120; antibody; scfr
KW GP120; antibody; scfr
KW GP120; antibody; scfr
KW Walk-through mutagen
KW complementarity dete
XX Synthetic.
XX WO2003088911-A2.
XX WO2003088911-A2.
XX WO2003088911-A2.
XX FIGURE CONT-2003; 2003WO-2003
XX WO2003088911-A2.
XX HOW WO2003088911-A2.
XX WPI; 2003.884029/79.
XX WPI; 2003-854029/79.
XX Crea R; WPI; 2003-854029/79.
XX WPI; 2003-854029/79.
XX Crea R; WPI; 2003-854029/79.
XX Crea
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Best Local Similarity
Matches 15; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              patient has cancer or is at increased risk of cancer, involving testing a Fanconi Anaemia (FA)/BRCA pathway gene or protein for the presence of a cancer-associated defect, where the presence of one or more cancer-associated defects is indicative of cancer or an increased risk of cancer in the patient. The method of the invention has cytostatic activity. The method is useful for determining if a patient has cancer, or is at the cancer of the cancer or is at the c
                                                             This invention relates to a novel library of immunoglobulin (IGG) molecules. Specifically, it refers to prototype IGG molecules that each may comprise a mutation where a single predetermined amino acid has been substituted in one or more positions within one or more of the six
                                                                                                                                                                                                                                                                                                                                                                                                                            New libraries for a prototype IgG (IgG) comprising mutated IgG or nucleic acids encoding a mutated IgG, useful for generating specific information on particular mutations that alter interaction of an IgG with its
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to a novel method of diagnosing or determining if patient has cancer or is at increased risk of cancer, involving testing Fanconi Anaemia (FA)/BRCA pathway gene or protein for the presence of a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GP120; antibody; scFV; ss; library; immunoglobulin; IgG; prototype;
walk-through mutagenesis; anti-HIV; CDR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 21 BP; 2 A; 4 C; 6 G; 9 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                            English.
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RESULT 1283
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           Detecting polymorphisms between 2 nucleic acid samples, esp. in microsatellite regions, comprises digesting the nucleic acid to generate fragments, ligating adaptor segments to their ends, amplifying them using primer directed amplification and comparing the prods to detect differences. The primers used in the amplification comprise a primer consisting of a perfect cpd. simple sequence repeat (SSR), and an adaptor directed primer, comprising a sequence complementary to an adaptor segment. The present sequence is an example of a compound SSR primer. The method represents a modified amplified fragment length polymorphism assay, which is partic. useful for genome fingerprinting, i.e. for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              monoclonal antibody (scFV). The present invention describes a method for generating a library of prototype mutant IgGs (for example IgM, IgA, IgD or a Fab fragment of IgG), which can be used to study protein structure and function via a walk-through mutagenesis procedure. Accordingly, the libraries may be used for the systematic analysis of the binding regions of prototype IgG molecules. Furthermore, it provides specific information regarding particular mutations that alter the interaction of an IgG with its antigen, including multiple interactions by amino acids of the varying CDRs. This oligonucleotide sequence is a degenerate human GP120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Detection; polymorphism; perfect compound simple sequence repeat; adaptor directed primer; genome; genetic; fingerprinting; amplified fragment length polymorphism assay; microsatellite region; genetic trait marking; germplasm comparisons; compound; ss.
genetic trait marking
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CDR2 DNA oligo designed to introduce a targeted positions, a method of the invention.
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                                                                                                                                  The invention relates to the preparation of microarrays, which involve the oxidation of chemical groups present on a solid support surface to allow the formation of aldehyde functions upon the surface. The aldehyde functions covalently couples with capture molecules designed for the detection, identification, quantification and/or the recovery of complementary target biological or chemical molecules. For preparing microarrays e.g. biochips or chemochips to detect, quantify and/or recover e.g. nucleotide sequences, ligands or antibodies, from sample e.g. detecting transcriptional factors. This polynucleotide sequence
                                                                                                                                                                                                                                                                                                    Preparation of microarrays e.g. biochips, involves oxidation of chemical groups present upon the support surface and allowing the formation of aldehyde functions at the surface of the solid support.
                                                                              represents a PCR primer used to amplify the femA gene sequence fro Staphylococcus aureus. This sequence is used in a method of the invention, involving the detection of target nucleotide amplicons short capture nucleotide sequences fixed on glass slides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Microarray; oxidation; solid support surface; aldehyde function; biochip; capture molecule; chemochip; PCR; primer; femA gene; ss.
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                                                                                                                                                                                                                                                                             Example 7;
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                                                                        Human; NOVX; PCR; ss; metabolic disorder; cardiomyopathy; diabètes; ASD; hypertension; congenital heart defect; actric stenosis; valve disease; atrial septal defect; atrioventricular canal defect; ductus arteriosus; pulmonary stenosis; subaortic stenosis; ventricular septal defect; VSD; tuberous sclerosis; scleroderma; atherosclerosis; infectious disease; obesity; anorexia; neurodegerative disorder; Alzheimer's disease; Parkinson's disease; immune disorder; haematopoletic disorder; primer; haemaphilia; hypercoagulation; Crohn's disease; cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present invention provides a method of identifying or quant microorganism in a sample by detecting its nucleotide sequence amongst homologous sequences. The method can be used to detect microorganisms and polymorphisms, and to diagnosis genetic discincluding cancer. The present sequence is a consensus primer u exemplification of the invention
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Alexandre
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15-SEP-2000; 2000EP-00870204.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Identifying or quantifying organisms or genes, useful e.g. for diagnosis, by detecting specific nucleotide sequences present among several
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2001US-0332115P.
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Padigaru M, Shi Anderson DW, Lo Macdougall JR, Ellerman K, Guo X, Kekuda R, Miller CE, Malyankar UM, Spytek KA; Patturajan M, Liu X, Gusev VY, Li L, Vernet CAM, Zerhusen BE Gorman L, Shenoy SG, Pena CEA, Smithson G, Bergess CE, Gerla Padigaru M, Shimkets RA, Gangolli EA, Taupier RJ, Casman SJ, Anderson DW, Leite MW, Rastelli L, Edinger SR, Stone DJ; Macdougall JR, Rothenberg ME, Mazur A, Millet I, Peyman JA; Miller CE, Mal Zerhusen BD ί ω; ίν,

2003-046858/04.

New isolated NOVX polypeptide useful for treating atherosclerosis, metabolic disorders, diabetes, obesity, infectious disease, anore, neurodegenerative disorders, Alzheimer's disease and cancer. disease, anorexia, nd cancer.

Page 666pp; English.

The invention relates to human polypeptides, termed NOVX, and the polymucleotides encoding them. The polypeptides and polymucleotides are useful for diagnosing disease, and screening for potential therapeutic agents. The sequences are useful for treating metabolic disorders, cardiomyopathy, diabetes, hypertension, congenital heart defects, aortic stenosis, atrial septal defect (ASD), atrioventricular cannal defect, ductus arteriosus, pulmonary stenosis, subaortic stenosis, ventricular septal defect (VSD), valve diseases, tuberous sclerosis, scleroderma, septal defect (VSD), valve diseases, tuberous sclerosis, scleroderma, the control of the co atherosclerosis, obesity, infectious disease, anorexia, neurodegenerative disorders, Alzheimer's disease, Parkinson's disease, immune disorders,

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ABX12725
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Best Local
                                                               The present invention relates to a method for modulating gene expression in a cell. The method comprises modulating a binding interaction between an alphaCP polypeptide and a Hur polypeptide. The invention also discloses mRNA stabilising elements involved in the binding of alphaCP1, alphaCP2 and Hur proteins to mRNA. The method of the invention is useful for modulating gene expression, stabilising vascular endothelial growth factor (VEGF) mRNAs, for inducing angiogenesis, for treating mammalian diseases (e.g. coronary diseases, cardiac diseases, cancer), and identifying modulators of gene expression. The present sequence represents a mRNA stabilising element of the invention
                                                                                                                                                                                                                     Modulating gene expression in a cell useful for preparing a composition for treating cancer by modulating a binding interaction between an alpha CP polypeptide and a HuR polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Modulating gene expression; alphaCP1; alphaCP2; HuR protein; mRNA stabilising element; vascular endothelial growth factor; VEGF; mRNA stabilisation; angiogenesis; coronary disease; cardiac disease cancer; cytostatic; ss.
                                              Sequence
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ADD69448/c
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                                                                                                                                                                                                                                                                             The invention relates to a novel set of inter-simple sequence repeats (ISSR)-PCR primers for genotyping eukaryotes. The primers of the invention may be useful for genotyping diverse genomes of plant and animal systems, in particular for distinguishing Basmati rice varieties from non-Basmati rice varieties and traditional Basmati rice varieties from evolved Basmati rice varieties. The current sequence is that of the 5' anchored (ISSR)-PCR primer of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                     New set of inter-simple sequence repeats (ISSR)-PCR primers i genotyping eukaryotes, useful for genotyping diverse genomes
                                            Human G-protein
                                                                  11-MAR-2004
                                                                                         ADH31279;
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12-JAN-2001; 2001US-0261498P

24-JAN-2001; 2001US-0263689P

08-FEB-2001; 2001US-0276464P

22-FEB-2001; 2001US-0277946P

14-MAR-2001; 2001US-0279150P

13-MAR-2001; 2001US-0278150P

14-PAR-2001; 2001US-0278150P

18-APR-2001; 2001US-0284591P

23-APR-2001; 2001US-0289327P

19-JUN-2001; 2001US-029327P

16-AUG-2001; 2001US-0312902P
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Edinger SR,
Macdougall J
                                                                                                                                                                                                                                                                                                                                                                                                                           Padigaru M
Colman SD,
               The invention relates to human G-protein coupled receptor (GPCR) polypeptides and the polynucleotides encoding them, designated GPCRX. The invention also relates to a cettor comprising a GPCRX nucleic acid, a cell comprising the vector, an antibody that binds immunospecifically to a GPCRX polypeptide, methods for determining the presence or amount of the polypeptide or the nucleic acid molecule in a sample, methods for
                                                                                                                                                                                                                                                      useful
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                                                                                                                                                                    Example 3;
                                                                                                                                                                                                              pharmacogenomics.
                                                                                                                                                                                                                                                                                                                        WPI; 2004-061267/06.
                                                                                                                                                                                                                                                                                                                                                               Tchernev VT,
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                                                                                                                                                                                                                                  g. cardiomyopathy,
                                                                                                                                                                                                                                G-protein coupled receptor (GPCR) polypeptides and nucleic ful for diagnosing, preventing or treating GPCR-associated c cardiomyopathy, atherosclerosis or diabetes, and in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SHENO.

GUSEV V Y.

MALYANKAR U M.

TANGER S R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ) GUNTHER E.
) PEYMAN J A.
) ELLERMAN K.
) MILLET I.
) TCHERNEV V T.
) ANDERSON D W.
) WOLENC A R.
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BALLINGER R A.

CASMAN S J.

SPYTEK K A.

COLMAN S D.

VERNET C A M.

SHENCY S G.
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KEKUDA R.
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MACDOUGALL J
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, Gerlach V,
JR, Gunther I
                                                                                                                                                                                                                                                                                                                                                                                 JR,
                                                                                                                                                                  SEQ ID NO 471; 328pp; English.
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Stone DJ, Sciore P;
A, Ellerman K, Millet I;
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disorders,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    activity of a polypeptide and a method for modulating the activity of the polypeptide. The composition and methods are useful in diagnosing, preventing or treating GPCRX-associated disorders, such as cardiomyopathy, atherosclerosis, diabetes, obesity, infections, cancer, Alzheimer's disease, Parkinson's disease, asthma, allergies, hypertension, retinal diseases, urinary retention, anglna pectoris, Crohn's disease, schizophrenia and manic depression. The nucleic acids are further used as hybridiastion probes, in chromosome mapping, tissue typing, preventive medicine and pharmacogenomics. The polypeptides are also useful as vaccines or as immunogens to produce antibodies. This sequence represents a PCR primer used to amplify human GPCRX cDNA of the
                                                                                                                                                                                                                                                                                                                                                                                                    3'-5'
                                                                   Sequence 23
                                                                                                   polymerase alpha
in humans. See al
                                                                                                                                                                                                                                                                                                                                                         Synthetic.
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03-AUG-1989
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                                                                                       Q04793. (Updated
                                                                                                                                              Disclosure; Page 8; 33pp; English.
                                                                                                                                                                              Detection
                                                                                                                                                                                                    WPI; 1990-099422/13.
                                                                                                                                                                                                                         (SCAN/)
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17-MAY-1989;
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                                                                                                                         The primer
                                                                                                                                                                                                                                                                                                                                                                              DNA polymerase
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  2916 CTCATCAGCATCAAG
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CITY OF
                                                                                                                                                                   on of human tumour progression and in tumour cell RNA and DNA.
                                  Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CTATCTCTGTGGCTT
                                                                                      is used in the PCR to analyse the transcript of the alpha gene thus determining the presence or absence See also AAQ03717, Q03729, AAQ03707, AAQ04777 and AAQpdated on 25-MAR-2003 to correct PA field.)
                                                                   ВP;
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(first en
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89US-00352994.
                                                                                                                                                                                                                                                                                                                                                                              alpha; gene amplification; PCR; human
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Best Local S
Matches 16
inflammation, matrix metalloprocellase value, or administering a dependent kinase, growth factor or a reductary of a reductary linked to nucleic acid molecule (II) comprising a promoter operably linked to nucleic acid molecule (II) comprising a promoter operably linked to nucleic acid segment encoding (I). (I) can have antipsoriatic, antisickles acid segment encoding (I). (I) can backermatological, cycostatic, antiseborrheic, anticide activities, a ophthalmological, vulnerary, keratolytic and virucide activities, a ophthalmological, vulnerary, keratolytic and virucide activities, a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; ribozyme therapy; hairpin ribozyme; hammerhead ribozyme; recognition site; target; ribozyme binding site; eye disease; vulnerary; proliferative disease; skin disease; psoriasis; diabetic retinopathy; cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP; matrix metalloproteinase; growth factor; reductase; scarring; cytostatic; antipsoriatic; dermatological; antiseborrheic; antidiabetic; virucide; antipic dermatitis; actinic keratopytic; gene therapy; viral wart; atopic dermatitis; actinic keratosis; squamous cell carcinoma; basal cell carcinoma; seborrheic wart; vitreoretinopathy; scar;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           neuropathological effects of diabetes, AIDS, neuropathy, and leprosy. Populars AAC61052-C61061 are used in the invention for the amplification of DNA sequences encoding GAPDH, RALDH II (retinaldehyde dehydrogenase type 2 - formed during retinoic acid synthesis), and retinoid-X-receptors. These PCR primers are used in the invention during the isolation and characterisation of the retinoic acid receptors
                                                                                                               The present invention describes a method for treating a proliferative skin or eye disease and scarring. The method involves administering a ribozyme (I) which cleaves RNA encoding a cytokine involved in inflammation, matrix metalloproteinase (MMP), cyclin, cell-cycle
                                                                                                                                                                                                                                                      Treating proliferative skin or eye diseases and scarring, using ribozymes that cleave RNA encoding cytokines involved in inflammation, matrix metalloproteinases, growth factors and cell-cycle dependent kinases.
                                                                                                                                                                                                                       Example 1; Page 351; 408pp; English.
                                                                                                                                                                                                                                                                                                                                             WPI; 2001-300427/31.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     motor neurone disease, schizophrenia and other disorder including
                                                                                                                                                                                                                                                                                                                                                                                                                       (IMMU-) IMMUSOL INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens.
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Pred. No. 9
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RESULT 1384
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; ribozyme therapy; hairpin ribozyme;
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Pred. No. 9
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recognition site; target; ribozyme binding site; eye disease; vulnerary; proliferative disease; skin disease; psoriasis; diabetic retinopathy; cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP; matrix metalloproteinase; growth factor; reductase; scarring; cytostatic; antipsoriatic; dermatological; antiseborrheic; antidiabetic; virucide; antistckling; opthalmological; keratolytic; gene therapy; viral wart; atopic dermatitis; actinic keratosis; squamous cell carcinoma; Homo sapiens. cell cell retinopathy; ss. carcinoma; seborrheic wart;

WO200130362-A2

26-OCT-2000; 2000WO-US029500.

26-OCT-1999; 99US-0161532P

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WPI; 2001-300427/31

Treating proliferative skin or eye diseases and scarring, using ribozymes that cleave RNA encoding cytokines involved in inflammation, matrix metalloproteinases, growth factors and cell-cycle dependent kinases.

Example 1; Page 216; 408pp; English.

dependent kinase, growth factor or a reductase, or administering nucleic acid molecule (II) comprising a promoter operably linked nucleic acid segment encoding (I). (I) can have antipsoriatic, dermatological, cytostatic, antiseborrheic, antidiabetic, antisic The present invention describes a method for treating a proliferative skin or eye disease and scarring. The method involves administering a ribozyme (I) which cleaves RNA encoding a cytokine involved in inflammation, matrix metalloproteinase (MMP), cyclin, cell-cycle antisickling ö

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ARAGEZILT 1381
ARAG6229/c
ID ARAG622
XX ARAG622
XX OP-OCT-
XX Dog gen
XX Dog; gen
KW Dog; gen
KW Chromos
KW Phenoty
XX Canis f
XX WO20002
XX WO20002
XX HOV-
PR 15-NOV-
PR 13-NOV-
PR 13-NOV-
PR 13-NOV-
XX Galiber
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N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and or resent invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local
                              New radiation hybrid map of the dog, Canine familiaris, for e.g. identifying genes implicated in phenotypic and or in genetic diseases and for studying dog pedigrees.
                                                                                                                                                                                                                                                                                                                                     Canis familiaris
                                                                                                                                                                                                                                                                                                                                                                                   Dog; genome; genomic marker; radiation hybrid map; identification; chromosome location; gene marker; polymorphic microsatellite marker
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAA66229 standard; DNA; 19
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                                                                                                   WPI; 2000-387821/33.
                                                                                                                                     Galibert
                                                                                                                                                                                                                                   15-NOV-1999;
                                                                                                                                                                                                                                                                                                     WO200029615-A2
                                                                                                                                                                                                                                                                                                                                                                    phenotype; behaviour;
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                                                                                                                                                                  (CNRS ) CNRS
                                                                                                                                                                                                                                                                                                                                                                                                                                     genomic
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                                                                                                                                                                                                                                                                                                                                                                    location; gene marker; polymorphic microsatellite marker; behaviour; pedigree; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BP; 11 A; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                     marker oligonucleotide sequence
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                                                                                                                                                                    CENT NAT RECH
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Pred. No. 9.
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                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQ
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Claim 1;

Page 57; 87pp; English

This invention relates to the use of a retinoic acid receptor beta 2 (RARbeta2) and/or its agonist in the preparation of a medicament to concern development. RARbeta2 mediates the cellular effects of the vitamin A derived molecule retinoic acid. Sequences AAC61031-C61051 represent PCR primers specific for RARalpha, RARbeta, and RARgamma DN sequences. The retinoic acid receptor of the invention exhibits mootropic, neuroprotective and neurleptic activities. A method using RARbeta2 to cause neurite development can be used for treating neurological disorders comprising neurological injury. Neurological disorders include Parkinson's disease, Alzheimer's disease, senility.

DNA

Disclosure;

Page

71;

88pp; English.

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AAC61061
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention describes a radiation hybrid map of the dog (Canine familiaris) genome comprising the genome location of a marker selected from AAA6613 to AAA66942. The radiation hybrid map is useful for identifying and localising dog genes, since it covers approximately 80 % of the dog genome and provides a dense map integrating different types (i.e. Type I and Type II) of markers. The map and the dog genome markers (or complementary sequences) are especially useful to identify genes responsible for phenotypic and behavioural traits in dogs, to identify morbid genes, to analyse diseases and identify implicated genes in such diseases and their alleles, and to study dog pedigrees. They may also be useful for isolating corresponding human gene sequences e.g. genes
                                                                                                                                                                        Use of retinoic acid receptor beta 2 or its agonist development and treating neurological disorder such disease, Alzheimer disease and schizophrenia.
                                                                                                                                                                                                                                                                                                                                                                     05-OCT-2000.
                                                                                                                                                                                                                                                                                                                                                                                                                         Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Retinoic acid receptor beta 2; RARbeta2; neurite development; senility retinoic acid; nootropic; neuroprotective; neurleptic; schizophrenia; neurological disorder; Parkinson's disease; Alzheimer's disease; ss; motor neurone disease; diabetes; AIDS; neuropathy; leprosy; PCR prime:
                                                                                                                                                                                                                                WPI; 2000-664888/64.
                                                                                                                                                                                                                                                                                                                                          30-MAR-2000; 2000WO-GB001211.
                                                                                                                                                                                                                                                                                                                                                                                                WO200057900-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                    retinoid-X-receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Retinoid-X-receptor gamma (RXRgamma) reverse PCR primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAC61061;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first
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Pred. No. 9
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                                                                                                                                                                                       for inducing neurite as Parkinson's
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selected
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RESULT 1379
AAZ72783/c
ID AAZ7278
XX AAZ7278
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XX Human k
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KW Genomic
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AAA86251/c
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Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention relates to a hairpin or hammerhead ribozyme, designed to cleave RNA encoding a cyclin or cell-cycle dependent kinas other than cell-cycle dependent kinases CDKI, PCNA and Cyclin B1.

Representative examples of ribozyme recognition sites are given in AAA82415 to AAA86787. The ribozyme of the invention is useful for inhibiting restenosis by introduction of the ribozyme into cells. The ribozyme is resistant to endonuclease activity and hence is efficient
                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cdc 25 hs
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                                                                          Human genome; biallelic marker; high density disequilibrium map; genomic map; haplotype; phenotypie; polymorphic base; genotyping; haplotyping; hybridisation; identification; characterisation; haplotyping; hybridisation; identification; SNP; PCR primer; amplification; single nucleotide polymorphism; SNP; PCR primer;
                                                                                                                                                    Human biallelic marker upstream amplification primer SEQ ID NO:7139.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tritz R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          08-JUN-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ribozyme;
    WO9954500-A2
                                                                                                                                                                                                                                              AAZ72783 standard; DNA; 19 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           restenosis treatment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Disclosure; Page 105;
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                               Homo sapiens
                                                             diagnosis; ss.
                                                                                                                                                                                     10-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New hairpin and hammerhead ribozyme RNA encoding a cyclin or cell-cycle
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           encoding a cyclin and Cyclin B1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ribozyme binding site
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                                                                                                                                                                                                                                                                                                                                                                                  Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             109pp; English
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                                                                                                                                                                                                                                                                                                                                                                                 Score 14.8; DB 1; Length 19; Pred. No. 9.2e+02; O; Mismatches 2; Indels
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAZ65654 to AAZ69578 represent human biallelic markers from the present invention, which contain a polymorphic base at position 24 of their nucleotide sequences. AAZ69579 to AAZ77440 represent amplification primers for the biallelic markers. The biallelic markers of the invention have a variety of uses: they can be used for high density mapping of the human genome, and in complex association studies and haplotyping studies which are useful in determining the genetic basis for disease states. Compositions and methods of the invention can also be useful for the identification of the targets for the development of pharmaceutical agents and diagnostic methods, as well as the characterisation of the differential efficacious responses to and side effects from pharmaceutical agents acting on a disease as well as other treatment. N.B. The SEQ ID NOs 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and 3367, are not actually given a sequence in the Sequence Listing from the present invention.
                                                                                                                                                                                        Human genome; biallelic marker; high density disequilibrium map; genomic map; haplotype; phenotype; polymorphic base; genotyping; haplotyping; hybridisation; identification; characterisation; haplotyping; hybridisation; dentification; SNP; PCR primer; amplification; single nucleotide polymorphism; SNP; PCR primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 19 BP; 11 A; 1 C; 7
            21-APR-1998;
23-NOV-1998;
                                                                                                                                                                           diagnosis; ss.
                                                                                                                                                                                                                                                                   Human biallelic marker upstream amplification primer SEQ ID NO:7300
                                                                                                                                                                                                                                                                                                10-SEP-2001
                                                                                                                                                                                                                                                                                                                                                          AAZ72944 standard; DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      present invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Novel biallelic markers used to construct a high density disequilibrium map of the human genome.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Cohen D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21-APR-1998;
23-NOV-1998;
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                                                         21-APR-1999;
                                                                                                                                             Homo sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                               (first entry)
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            98US-0082614P.
98US-0109732P.
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                                                         99WO-IB000822
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Pred. No. 9.
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RESULT 1376
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XX MO20003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        at a PG1-related biallelic marker. The methods can be used to detect and to assess the risk of developing cancer or prostate cancer. Early-stage diagnosis of prostate cancer relies on prostate specific antigen (PSA) dosage. However, the effectiveness of this is limited due to its inability to discriminate between malignant and non-malignant affections of the organ. A need exists for both a reliable diagnostic procedure which would enable early-stage diagnosis, and for preventative and curative treatments of the disease. The PGI gene can be used for detection of prostate cancer, and the risk of developing it in the
                                                      New hairpin and hammerhead ribozyme RNA encoding a cyclin or cell-cycle PCNA and Cyclin B1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to a mammalian PG1 gene and protein, and a set of PG1 biallelic markers. The PG1 polynucleotide and biallelic markers are used in a hybridisation assay, a sequencing assay, or in an allelespecific amplification assay for determining the identity of a nucleotide
                             Disclosure;
                                                                                                                   WPI; 2000-412314/35
                                                                                                                                              Tritz R,
                                                                                                                                                                                                     04-DEC-1998;
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                                                                                                                                                                                                                                                                                         WO200032765-A2
                                                                                                                                                                                                                                                                                                                      Mammalia
                                                                                                                                                                                                                                                                                                                                               Ribozyme; hairpin; hammerhead; gene therapy; vasotropic; restenosis;
                                                                                                                                                                                                                                                                                                                                                                          Cdc 25 hs ribozyme binding site #361.
                                                                                                                                                                                                                                                                                                                                                                                                         04-DEC-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                     AAA86253;
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                                                                                                                                            Welch PJ,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     B₽;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              can also be used to determine therapies
                             Page 105;
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                                                                                                                                              Robbins
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                                                                       for inhibiting restenosis, cleaves dependent kinase other than CDK1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       gene and biallelic markers derived
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The present invention relates to a hairpin or hammerhead ribozyme,

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RESULT 1377
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                             Matches
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                                                                                                                  The present invention relates to a hairpin or hammerhead ribozyme, designed to cleave RNA encoding a cyclin or cell-cycle dependent kinas other than cell-cycle dependent kinases CDK1, PCNA and Cyclin B1. Representative examples of ribozyme recognition sites are given in AAA82415 to AAA86787. The ribozyme of the invention is useful for inhibiting restenosis by introduction of the ribozyme into cells. The ribozyme is resistant to endonuclease activity and hence is efficient
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         designed to cleave RNA encoding a cyclin or cell-cycle dependent kinase other than cell-cycle dependent kinases CDK1, PCNA and Cyclin B1. Representative examples of ribozyme recognition sites are given in AAA82415 to AAA86787. The ribozyme of the invention is useful for inhibiting restenosis by introduction of the ribozyme into cells. The ribozyme is resistant to endonuclease activity and hence is efficient in
                                                                              Sequence 19
                                                                                                                                                                                                                                                               New hairpin and hammerhead ribozyme RNA encoding a cyclin or cell-cycle
                                                                                                                                                                                                                                                                                                                                                                                  04-DEC-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ribozyme; hairpin; hammerhead; gene therapy; vasotropic; restenosis;
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                                                                                                                                                                                                                          Disclosure; Page 76;
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                                                                                                                                                                                                                                                                                                                            Tritz R,
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                                                                                                         restenosis
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                                                                                                                                                                                                                                                  encoding a cyclin and Cyclin B1.
  3053 GGGGGAGATCAAGCTGCA 3070
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                             16;
                                        Similarity
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                                                                                                         treatment
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                             Conservative
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Pred. No. 9.2e+02
0; Mismatches
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Pred. No. 9
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                                                                                                                                                                                                                                                                                                                               Robbins JM;
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                                                                              0 Other;
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RESULT 1373
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AAV39343/c
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Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                               Based on the analysis of HLA-DQbeta sequences from diverse sources, which were grouped into allelic variants, the probes (see AAQ15036-41) from two variable regions of the DQbeta second exon encompassing each variant were synthesised. See also AAQ15025-51 and AAQ15165-68. (Updated on 25-MAR-2003 to correct PF field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Oligo-nucleotide probe gps. hybridising to gene sequence variations allow sensitive detection of genetic polymorphisms and are used for detecting insulin dependent diabetes.
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                                                                                                                                                                                                                                                                                                                                          Sequence 19 BP; 4 A; 8 C; 7 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 9(iii); Page 31; 31pp; English.
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EP844305-A2
                                                                  Human; RAD54; hRAD54; cancer; xeroderma pigmentosum; Bloom syndrome; Werner's syndrome; ATR-X; diagnosis; detection; SNF2 superfamily; X-linked mental retardation with alpha-thalassemia syndrome; tumour;
                                                                                                                Human genomic
                                                                                                                                                                                      AAV39343 standard; cDNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1991-355815/49.
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25-FEB-1992
                                  Synthetic.
                                                                                                                                       16-SEP-1998
                                                                                                                                                               AAV39343
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22-AUG-1986;
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                      Homo sapiens.
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(HOFF ) HOFFMANN-LA ROCHE AG
                                                       therapy;
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(first entry)
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                                                                                                                DNA PCR primer C2f derived from
                                                       PCR primer; ss.
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86US-00899344.
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Pred. No. 9.
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Mismatches
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                                                                                                                                                                                                                                                                                                       9.2e+02;
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                                                                                                                                                                                                                                                                                                                   DB 1; Length 19;
                                                                                                                the
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                                                                                                                                                                                                                                                                                            Gaps
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                                                                                                                                                                                                                                                                                                                                              RESULT 1375
AAZ01381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present sequence represents a PCR primer used in the example from the compresent invention. The method of the invention is for determining the CC genetic predisposition to cancer in an individual by detecting hRAD54 CC mutations in a sample. hRAD54 is a gene thought to be present in tumours that display allelic imbalance at Ip32, the chromosomal band identified CC as one of four minimal regions of chromosome 1 deletion in breast CC carcinomas. hRAD54 is useful for production of proteins, inter alia, that have been identified as novel hRAD54 by homology between the amino acid sequence given in AAW62186 and known amino acid sequences such as yeast CC RAD54. hRAD54 proteins are used in the treatment of cancer, including CC xeroderma Pigmentosum and Bloom syndrome, Werner's syndromes and X-linked mental retardation with alpha-thalassaemia syndrome and breast cancer. CC hRAD54 polymucleotides for use as a diagnostic agent, especially useful for clasmostic for useful for susceptibility to disease. hRAD54 proteins are useful find antagonists which are proteins are useful in cane therany.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local S
Matches 16
22-DEC-1997;
09-SEP-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 19 BP; 3 A; 6 C; 3 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1998-274189/25.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   13-NOV-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 10-NOV-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              27-MAY-1998.
                                                                                                                                                                                           PG1 gene; biallelic marker; PCR primer; PG1-related biallelic marker; cancer; prostate cancer; diagnosis; therapy; prostate specific antigen;
                                                                                                                                                                                                                                                                        27-SEP-1999
                                                                                                                                                                                                                                                                                                    AAZ01381;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human hRAD54 DNA and polypeptide - and agonists, antibodies, antagonists,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (SMIK ) SMITHKLINE BEECHAM CORP. (UYJE-) UNIV JEFFERSON THOMAS.
                                           22-DEC-1998;
                                                                                                     WO9932644-A2
                                                                                                                                                   Synthetic.
                                                                                                                                                                               PSA; human; ss.
                                                                                                                                                                                                                                         PCR primer for PG1 biallelic marker 4-60-293.
                                                                                                                                                                                                                                                                                                                               AAZ01381 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           useful in gene therapy
                                                                                                                                 domo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                           1334 TGAAGACAAGGTCAAGGC 1351
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     16;
                                                                                                                                                                                                                                                                                                                                                                                                           19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Page 23; 64pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                           TGAAGACAAAGTCAGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Fishel RA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                     (first entry)
97US-00996306.
98US-0099658P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   96US-0030676P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 97EP-00308998
                                           98WO-IB002133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.3%;
                                                                                                                                                                                                                                                                                                                                DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                           N
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Pred. No. 9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Robbins DJ;
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9.2e+02;
2;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
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AAN90066). (U
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Allele-specific probe (designated GH61), from the DQ-beta-B region of the DR3 haplotype used to detect indirectly the identity of codon 57 in the DQ-beta locus of the HLA Class II agenes. Used to detect autoimmune diseases, esp. diabetes mellitus, and Pemphigus vulgaris (see AAN90051-AAN90066). (Updated on 25-MAR-2003 to correct PF field.) (Updated on 25-MAR-2003 to correct PI field.)
                                                                                                                                                                                                                   Insulin-dependent Reiter's disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Marker DNA sequences from HLA class-II beta region - detect amino acid codon of dq-beta protein to detect auto-immune susceptibility.
Probe may be used in tests for proclivity towards autoimmune diseases
                    Claim
                                                                 WPI; 1990-341710/45.
                                                                                                                         01-JUL-1986;
                                                                                                                                           01-JUL-1986;
                                                                                                                                                              23-OCT-1990
                                                                                                                                                                                 US4965189-A.
                                                                                                                                                                                                  Homo sapiens
                                                                                                                                                                                                                                                         Oligonucleotide
                                                                                                                                                                                                                                                                            04-FEB-1991
                                                                                                                                                                                                                                                                                                                  AAQ06430 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1989-178393/24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                17-NOV-1987;
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                                       development
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                                     gene oligo:nucleotide(s) -
elopment of type I diabetes
                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                  TCCTGGGGGTGCCTGCCG 485
                   Col 14;
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                                                                                                                                                                                                                                                                                                                                                                                                                                        BP; 4 A; 8 C; 7
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                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                       MASSACHUESETTS
                                                                                                                                                                                                                                                                            (first entry)
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                                                                                                                        86US-00880857
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                                                                                                                                                                                                                                                        probe
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                  17pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8; 72pp;
                                                                                                                                                                                                                              diabetes; systemic
                                                                                                                                                                                                                                                                                                                 DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                            0.3%;
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                                                                                                                                                                                                                                                         region
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                                                                                                                                                                                                                                                                                                                                                                                                             Score 14.8;
Pred. No. 9
                                                                                                                                                                                                                                                         associated with human type I
                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                       mellitus.
                                               for detection
                                                                                                                                                                                                                              lupus erythematosus;
                                                                                                                                                                                                                                                                                                                                                                                                                                        Ģ
                                                                                                                                                                                                                                                                                                                                                                                                              9.2e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                         0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                      DB 1;
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                                               proclivity
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                                               humans
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AAQ15104/c
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Best Local S
Matches 16
                           Matches
                                      Query Match
Best Local Similarity
                                                                                              Primers GH28 and GH29 (AAQ15095 and AAQ15096, respectively), complementary to opposite strands of the conserved 5' and 3' ends of the Q beta second exon were used to amplify sample fragments. Some HLA-DQ allele specific probes (including DH61) from two variable regions of the DQ beta second exon were designed based on an analysis of HLA-DQ beta sequences from diverse sources which were grouped into allelic variants. The probes were found to have reasonable specificity for the portions of the allele being detected in genomic DNA samples. See AAQ15093-Q15112. (Updated on 25-MAR-2003 to correct PA field.)
                                                                                                                                                                                                                                                      Oligo-nucleotide primers for amplifying human leucocyte antigen genes for detection of gene variations and polymorphisms, utilising new proi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    such as insulin dependent diabetes, Reiter's disease etc. Probes are highly specific, even able to differentiate between restriction fragments of identical size, and may also be used in tissue typing
                                                                                                                                                                                                                                                                                                                                                                                                                                         04-DEC-1991.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 19
                                                                         Sequence 19
                                                                                                                                                                                                                                Claim 14; Page 26; 27pp; English.
                                                                                                                                                                                                                                                                                            WPI; 1991-355814/49
                                                                                                                                                                                                                                                                                                                   Erlich
                                                                                                                                                                                                                                                                                                                                          (CETU )
                                                                                                                                                                                                                                                                                                                                                                             13-MAR-1986;
22-AUG-1986;
                                                                                                                                                                                                                                                                                                                                                                                                                 13-MAR-1987;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             HLA-DQ beta; HLA typing; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Probe GH61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             25-MAR-2003
26-FEB-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAQ15104;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAQ15104 standard; DNA; 19
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  468
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                                                                                                                                                                                                                                                                                                                                          CETUS CORP.
HOFFMANN-LA ROCHE AG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTGGGGGTGCCTGCCGGC 487
    TCCTGGGGGTGCCTGCCG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     derived from HLA DQ-beta second
                                                                                                                                                                                                                                                                                                                   Saiki RK,
                                                                         BP; 4 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BP; 0 A; 8 C; 8 G; 3 T; 0 U; 0 Other;
                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (revised)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                              86US-00839331
86US-00899344
                                                                                                                                                                                                                                                                                                                                                                                                                 91EP-00113105
                                                                         8
C;
                                      88.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            88.98;
                                                0.3%;
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                                                                                                                                                                                                                                                                                                                   Horn GT,
                                                                          J
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   485
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                                                                         G; 0 T; 0 U;
                          0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0,
                           Score 14.8; DB 1
Pred. No. 9.2e+02
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 14.8;
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                                                                                                                                                                                                                                                                                                                     Mullie KB
                                                                         0 Other;
                                                    DB 1;
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                                                 Length 19;
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                            Indels
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                            Gaps
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10-NOV-2003;

2003WO-AU001487

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SXU
                                                                       AAN71284/c
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                                                                                                                                                                                                                                                                                                                                                                                                                           comprises a regulatory polynucleotide operably linked to a tandem repeat communities a reporter polynucleotide operably linked to a tandem repeat cof a first codon fused in frame with a reporter polynucleotide that consider a reporter protein, which produces, or is predicted to produce a codes a reporter protein, which produces, or is predicted to produce a codes a reporter protein, which produces, or is predicted to produce a codes the encodes in the organism or part; (5) a method of modulating the quality of a selected phenotype that is displayed by an organism of interest or part and that results from the expression of a parent polynucleotide that concides the polypeptide; (6) a method of enhancing the quality of a concides the polypeptide; and (7) a method of reducing the quality of a concides the polypeptide; and (7) a method of reducing the quality of a concides the polypeptide; and (7) a method of reducing the quality of a concides the polypeptide; and (7) a method of reducing the quality of a concides the polypeptide; and (7) a method of reducing the quality of a concides the polypeptide. The method is useful for constructing a concides the polypeptide. The method is useful for constructing a concident that conferred by a parent polynucleotible to confer a selected phenotype to an organism of interest or part in a different concident that conferred by a parent polynucleotible to confer a selected phenotype displayed by an organism or part. The present sequence encodes a synthetic leader sequence, which is used in an example from the present
                                                                                             RESULT 1369
                                                                                                                                                                                                                                                                  Matches
                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               different phenotypic preference than the first codon in a comparison of phenotypic preferences in test organisms or parts, where the test organism are selected from organisms of the same species as the organism of interest and organisms that are related to the organisms of interest; and (b) replacing the first codon with the synonymous codon to construct the synthetic polynucleotide. Also described: (1) a method for determining the phenotypic preference of a first codon in an organism of interest or its parts; (2) a synthetic polynucleotide constructed from the method above; (3) an organism or interest or part containing a synthetic polynucleotide constructed from the method above; (4) an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Constructing synthetic polynucleotide for modulating the quality of a selected phenotype displayed by an organism comprises replacing a first codon with a synonymous codon to construct the synthetic polynucleotide.
AAN71284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention describes a method for constructing a synthetic polynucleotide from which a polypeptide is producible to confer a selected phenotype to an organism of interest or part in a different quality than that conferred by a parent polynucleotide that encodes the same polypeptide. The method comprises: (a) selecting a first codon of the polypeptide.
                                             AAN71284 standard; DNA; 19
                                                                                                                                                                                                                                                                                                                                                                   Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   the parent polynucleotide for replacement with a synonymous codon, where
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 1; SEQ ID NO 21; 86pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       08-NOV-2002; 2002US-0425163P
                                                                                                                                                                                                                     3919
                                                                                                                                                                                                                                                                  16;
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                                                                                                                                                                                                CGACGCCGCGGCCGCCGC 3936
                                                                                                                                                                     cecceccecceccec
                                                                                                                                                                                                                                                                                                                                                                   BP; 0
                                                                                                                                                                                                                                                                  Conservative
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                                                                                                                                                                                                                                                                                                                                                                A; 12 C; 6 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                    0.3%;
                                                                                                                                                                                                                                                                0;
                                                                                                                                                                                                                                                                                         Score 14.8; DB 1
Pred. No. 8.5e+02
                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                DB 1; Length 18;
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RESULT 1370
AAN90050/c
ID AAN9005
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                           for detecting sequence variation directly. RS17, RS18 and RS21 are used to distinguish normal alleles (A) from sickle cell alleles (S) from haemoglobin C disease alleles (C). GH66, GH67, GH68 and GH75 are in the amplification and detection of HLA-DQ-alpha sequences. GH60, GH61, GH62, GH69, GH70 and GH71 are used in the amplification and detection of HLA-DQ beta sequences. GH51, GH56, GH57, GH58 and GH59 are used in the amplification and detection of HLA-DR-beta sequences. RS31, RS32 and RS33 are used in a process to amplify the genomic DNA from a known normal individual, a known sickle cell individual, and an individual with no beta-globin gene sequences (GM2064). XX1, XX2, XX3 and XX4 were used to isolate human genomic DNA from clinical samples of various beta-thalassemia genotypes. RS24 was used to isolate the normal beta-globin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence of HLA-DQ-beta
                                                                                                           25-MAR-2003
01-NOV-1989
                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example; Page 41; 70pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Detection of specific nucleotide variations in nucleic acids - by hybridising with nucleotide tri:phosphate(s), and polymerisation agent,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Erlich HA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       13-MAR-1987;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sickle cell anaemia; haemoglobin C disease; HLA-DQ- alpha; HLA-DQ- be HLA-DR-beta; HLA-DP-alpha; HLA-DP-beta; hybridisation; screening; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   06-JUN-1991
                                         Probe; DNA; DQ-beta locus of HLA class II beta genes; allele-specific
                                                                         Allele-specific probe (GH61) from DQ-beta-B region of DR3 haplotype.
                                                                                                                                                          AAN90050;
                                                                                                                                                                                        AAN90050 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The first base of the probe is labelled. The probe is used in a process
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           sepg. into single strands,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       13-MAR-1986;
22-AUG-1986;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       16-SEP-1987
                                                                                                                                                                                                                                                                                                                                                                                                                                  allele (beta A)
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                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                  BP; 4 A; 8 C; 7 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    probe GH61 based second exon.
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                                                                                                         (revised)
(first entry)
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86US-00899344.
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                                                                                                                                                                                        DNA; 19
                                                                                                                                                                                                                                                                                                                                                  0.3%;
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                                                                                                                                                                                                                                                                                                                                                    Score 14.8;
Pred. No. 9
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                                                                                                                                                                                                                                                                                                                                      Mismatches
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                                                                                                                                                                                                                                                                                                                                                    9.2e+02;
                                                                                                                                                                                                                                                                                                                                                                    DB 1;
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                                                                                                                                                                                                                                                                                                                                      Indels
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RESULT 1367
ADO26692
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Best Local
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Constructing synthetic polynucleotide for modulating the quality of a selected phenotype displayed by an organism comprises replacing a first
                                                                                                                                          WPI; 2004-411519/38.
P-PSDB; ADO26693.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           08-NOV-2002; 2002US-0425163P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   10-NOV-2003; 2003WO-AU001487
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         phenotype; phenotypic preference; phenotype modulation; leader; ds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic leader sequence encoding DNA SEQ ID NO:85
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             12-AUG-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADO26692 standard; DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 18 BP; 0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        organism are selected from organisms of the same species as of interest and organisms that are related to the organisms and (b) replacing the first codon with the synonymous codon the synthetic polynucleotide. Also described: (1) a method f
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADO26692;
                                                                                                                                                                                                                                                                                                                                                                   (UYQU ) UNIV QUEENSLAND
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16; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            <u>,</u>
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Pred. No. 8.
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CC the method above; (3) an organism or interest or part containing a synthetic polynucleotide constructed from the method above; (4) an CC synthetic polynucleotide constructed from the method above; (4) an CC organism or interest or part containing a synthetic construct that CC comprises a regulatory polynucleotide operably linked to a trandem repeat CC encodes a regulatory polynucleotide operably linked to a trandem repeat CC encodes a reporter protein, which produces, or is predicted to produce a CC selected phenotype or a phenotype of the same class as the selected CC phenotype in the organism or part; (5) a method of modulating the quality of a selected phenotype that is displayed by an organism of interest or CC part and that results from the expression of a parent polynucleotide that CC encodes the polypeptide; (6) a method of enhancing the quality of a ccodes the polypeptide; and (7) a method of reducing the quality of a ccodes the polypeptide; and (7) a method of reducing the quality of a ccodes the polypeptide; and (7) a method of reducing the quality of a ccodes the polypeptide. The method, is useful for constructing a ccodes the polypeptide. The method, is useful for constructing a ccodes the polypeptide. The method, is useful for constructing a selected phenotype to an organism of interest or part ccodes the polypeptide. The method, is useful for constructing a conferred by a parent polynucleotide that encodes the conferred by a parent polynucleotide that encodes the conferred by a parent polynucleotide that encodes the polypeptide. It is useful for modulating the quality of a selected phenotype to an organism or interest or part in a different ccompany of the conferred by a parent polynucleotide that encodes the conferred to the conferred by a parent polynucleotide that encodes the conferred to the conferred to the conferred to the confer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             different phenotypic preference than the first codon in a comparison of phenotypic preferences in test organisms or parts, where the test organism are selected from organisms of the same species as the organism of interest and organisms that are related to the organisms of interest; and (b) replacing the first codon with the synonymous codon to construct the synthetic polynucleotide. Also described: (1) a method for determining the phenotypic preference of a first codon in an organism of interest or its parts; (2) a synthetic polynucleotide constructed from the organism (3) and (4) are the organism of the organism organism organism organism of the organism organism or organi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 quality than that conferred by a parent polynucleotide that encodes the same polypeptide. The method comprises: (a) selecting a first codon of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        polynucleotide from which a polypeptide is producible to selected phenotype to an organism of interest or part in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              the synonymous codon is selected on the basis that it exhibits
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Sequence 18 B₽; 0 A; 12 C; 6 G; 0 T; 0 U; 0 Other;

phenotype displayed by an organism or part. The present s a synthetic leader sequence, which is used in an example

from the

ঠ Matches Query Match Best Local 3918 CCGACGCCGCGCCGCCG 3935 Similarity 88.9%; 0.3%; 0, Score 14.8; DB 1; Length 18; Pred. No. 8.5e+02; Indels 0 Gaps 0

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18

ADO26628 standard; DNA; 18 BP

AD026628

PT XXX XXX PFX XXX XXX PFX XXX XXX PFX XX PFX XXX PFX XX PFX X

12-AUG-2004 (first entry

Synthetic leader sequence encoding DNA SEQ ID NO:21.

phenotype; phenotypic preference; phenotype modulation; leader; ds.

Synthetic

RESULT 1368
AD026628
ID AD02662
XX AD02662 WO2004042059-A1

21-MAY-2004

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ADO26622/c
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Best Local S
Matches 16
determining the phenotypic preference of a first codon in an organism of interest or its parts; (2) a synthetic polynucleotide constructed from the method above; (3) an organism or interest or part containing a synthetic polynucleotide constructed from the method above; (4) an organism or interest or part containing a synthetic construct that comprises a regulatory polynucleotide operably linked to a tandem repeat of a first codon fused in frame with a reporter polynucleotide that encodes a reporter protein, which produces, or is predicted to produce selected phenotype or a phenotype of the same class as the selected
                                                                                                                                                                                       The present invention describes a method for constructing a synthetic polynucleotide from which a polypeptide is producible to confer a selected phenotype to an organism of interest or part in a different quality than that conferred by a parent polynucleotide that encodes the same polypeptide. The method comprises: (a) selecting a first codon of the parent polynucleotide for replacement with a synonymous codon, where the synonymous codon is selected on the basis that it exhibits a different phenotypic preference than the first codon in a comparison of phenotypic preferences in test organisms or parts, where the test organism are selected from organisms of the same species as the organism of interest and organisms that are related to the organisms of interest and organism that are related to the organisms of interest and organism that are related to the organisms of interest and organism that are related to the organism of interest and organism of interest organisms of interest and organism that are related to the organisms of interest and organism of interest and organisms of interest organisms of interest and organisms of interest.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Constructing synthetic polynucleotide for modulating the quality of a selected phenotype displayed by an organism comprises replacing a first codon with a synonymous codon to construct the synthetic polynucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               08-NOV-2002; 2002US-0425163P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  phenotype; phenotypic preference; phenotype modulation; leader;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Synthetic leader sequence encoding
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 1; SEQ ID NO 15; 86pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6 G; 0 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  14.8;
No. 8.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DNA SEQ ID NO:15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  .5e+02
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CC phenotype in the organism or part; (5) a method of modulating the quality of a selected phenotype that is displayed by an organism of interest or CC part and that results from the expression of a parent polynucleotide that CC encodes the polypeptide; (6) a method of enhancing the quality of a CC selected phenotype that is displayed by an organism of interest or part CC and that results from the expression of a parent polynucleotide that CC encodes the polypeptide; and (7) a method of reducing the quality of a CC selected phenotype that is displayed by an organism of interest or part CC and that results from the expression of a parent polynucleotide that CC encodes the polypeptide. The method is useful for constructing a CC synthetic polynucleotide from which a polypeptide is producible to confer CC quality than that conferred by a parent polynucleotide that encodes the CC same polypeptide. It is useful for modulating the quality of a selected phenotype displayed by an organism or part. The present sequence encodes CC a synthetic leader sequence, which is used in an example from the present conference of the present conference of the present sequence encodes the conference of the present sequence encodes the conference of the present conference of the present conference of the present sequence which is used in an example from the present conference of the present conferen
Sequence 18 BP; 0 A; 6 C; 12 G; 0 T; 0 U; 0 Other;
                                                                                                                     invention.
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Query Match Best Local S Matches 16 16; Similarity Conservative 0.3%; 0; Score 14.8; DB 1; Pred. No. 8.5e+02; Mismatches DB 1; Length 18; Indels

0

Gaps

0

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3918 CCGACGCCGCGGCCGCCG 3935

RESULT 1366 ADO26612/c ID ADO2661 밁 18 cceccecceccecce 1

Synthetic leader sequence encoding DNA SEQ ID NO:5. ADO26612 standard; DNA; 18 AD026612; 12-AUG-2004 (first entry)

phenotype; phenotypic preference; phenotype modulation; leader;

Synthetic WO2004042059-A1

21-MAY-2004

10-NOV-2003; 2003WO-AU001487.

08-NOV-2002; 2002US-0425163P

(UYQU) UNIV QUEENSLAND

WPI; 2004-411519/38. P-PSDB; ADO26613.

Constructing synthetic polynucleotide for modulating the quality of a selected phenotype displayed by an organism comprises replacing a first codon with a synonymous codon to construct the synthetic polynucleotide.

Example 1; SEQ ID NO 5; 86pp; English

The present invention describes a method for constructing a synthetic polynucleotide from which a polypeptide is producible to confer a selected phenotype to an organism of interest or part in a different quality than that conferred by a parent polynucleotide that encodes the same polypeptide. The method comprises: (a) selecting a first codon of the parent polynucleotide for replacement with a synonymous codon, where the synonymous codon is selected on the basis that it exhibits a different phenotypic preference than the first codon in a comparison of organisms

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Ct quality than that conferred by a parent polynucleotide that encodes the came polypeptide. The method comprises: (a) selecting a first codon of the parent polynucleotide for replacement with a synonymous codon, where ct the synonymous codon is selected on the basis that it exhibits a codifferent phenotypic preferences in test crganisms of parts; where the test cranisms of interest and organisms that are related to the organisms of interest; cand (b) replacing the first codon with the synonymous codon to construct the synthetic polynucleotide. Also described: (1) amethod for cetermining the phenotypic preference of a first codon in a comparison of cetermining the phenotypic preference of a first codon to construct the method above; (3) an organism or interest or of the parts; (2) a synthetic polynucleotide constructed from the method above; (3) an organism or interest or part containing a synthetic construct that comprises a regulatory polynucleotide operably linked to a tandem repeat comprises a reporter protein, which produces, or is predicted to produce a cencodes a reporter protein, which produces, or is predicted to produce a selected phenotype that is displayed by an organism of interest or part and that results from the expression of a parent polynucleotide that central from the expression of a parent polynucleotide that canditat results from the expression of a parent polynucleotide that canditat results from the expression of a parent polynucleotide that canditat results from the expression of a parent polynucleotide that canditat results from the expression of a parent polynucleotide that canditat results from the expression of a parent polynucleotide that canditat results from the expression of a parent polynucleotide that canditat results from the expression of a parent polynucleotide that canditat properties to an organism of interest or part canditating the polyneptide. The method is useful for constructing a synthetic polynucleotide that conferred by an organism of interest or part in a differen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Constructing synthetic polynucleotide for modulating the quality of a selected phenotype displayed by an organism comprises replacing a first codon with a synonymous codon to construct the synthetic polynucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention describes a method for constructing a synthetic polynucleotide from which a polypeptide is producible to confer a selected phenotype to an organism of interest or part in a different
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          08-NOV-2002; 2002US-0425163P
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3923 GCCGCGGCCGCCGCTGCC 3940

Matches Query Match

l Similarity

Conservative

0

Mismatches

Indels

0

Gaps

0

0.3%; 6 C; 12

Score 14.8; DB 1; Length 18; Pred. No. 8.5e+02;

Sequence

18 BP;

0 A,

G; 0 T; 0 U;

0 Other;

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CC the parent polymucleotide for replacement with a synonymous codon is selected on the basis that it exhibits a great polymucleotide for replacement with a synonymous codon, where the synonymous codon is selected on the basis that it exhibits a great polymucleotide for replacement with a synonymous codon, where the synonymous codon is selected on the basis that it exhibits a ghearism of greater phenotypic preference in test organisms of parts, where the test corganism are selected from organisms of the same species as the organism of interest; codon with the synonymous codon to construct and (b) replacing the first codon with the synonymous codon to construct the synthetic polymucleotide. Also described: (1) a method for interest or its parts; (2) a synthetic polymucleotide constructed from the method above; (3) an organism or interest or part containing a synthetic constructed from the method above; (3) an organism or interest or part containing a synthetic constructed from the comparises a regulatory polymucleotide operably linked to a tandem repeat of a first codon fused in frame with a reporter polymucleotide that comparises a regulatory polymucleotide operably linked to a tandem repeat of a first codon fused in frame with a reporter polymucleotide that the selected phenotype in the organism or part; (5) a method of modulating the quality of a selected phenotype that is displayed by an organism of interest or part cand that results from the expression of a parent polymucleotide that concodes the polypeptide; (6) a method of reducing the quality of a selected phenotype that is displayed by an organism of interest or part and that results from the expression of a parent polymucleotide that concodes the polypeptide; The method is useful for constructing a synthetic polymucleotide that the concodes the polypeptide. The method is useful for constructing the confer entry than that conferred by a parent polymucleotide that the conferred by a parent polymucleotide that the subject of the polymucleotide that the su
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       polynucleotide from which a polypeptide is producible to confer a selected phenotype to an organism of interest or part in a different quality than that conferred by a parent polynucleotide that encodes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Constructing synthetic polynucleotide for modulating the quality of a selected phenotype displayed by an organism comprises replacing a first codon with a synonymous codon to construct the synthetic polynucleotide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   same polypeptide. The method
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 1; SEQ ID NO 9; 86pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2004-411519/38.
P-PSDB; ADO26617.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     phenotype;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (UYQU ) UNIV QUEENSLAND
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     phenotypic preference; phenotype modulation; leader; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2002US-0425163P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   conferred by a parent polynucleotide that encodes The method comprises: (a) selecting a first codon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 describes a method for constructing a synthetic
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SEEXBX SX SX SX S
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ADM29039
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to a kit for diagnosing and treating T-cell CC associated diseases which comprises a panel of nucleic acid primers compectifically priming and allowing amplification of each Vbeta gene, CC vbetaRNA or CDNA. The kit is useful for diagnosing organ transplant crejection and diagnosing and treating T-cell associated diseases. CC including autoimmune diseases, hypersensitivity diseases, infectious diseases, can neoplastic diseases. Autoimmune diseases include Addison's diseases, CC and neoplastic diseases. Autoimmune diseases include Addison's disease, CC atrophic gastritis. Degenerative nervous system diseases include multiple sclerosis and Alzheimer's diseases. Hypersensitivity diseases include Type CC introsis and Alzheimer's diseases. Hypersensitivity diseases include Type CC allergies, Type II hypersensitivities such as those present in CC Goodpasture's syndrome and Type IV hypersensitivities such as those caused by viruses such as HTV, fungal infections such as those caused by the yeast genus Candida, parasitic infections such as those caused by CC schistosomes, filaria and bacterial infections such as those caused by Schistosomes, filaria and bacterial infections such as those caused by Impleaming lumphomas and cancers such as those caused by Impleaming lumphomas and cancers such as those caused by Impleaming lumphomas and cancers such as those caused by Impleaming lumphomas and cancers such as those caused by Impleaming lumphomas and cancers such as those caused by the parasitic diseases include lymphoproliferative diseases.
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Matches
                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
type 1 diabetes; detection; polymorphism; interleukin 4; IL4; interleukin 13; IL13; immunology; molecular biology; autoimmune multiple sclerosis; myasthenia gravis; ulcerative colitis;
                                                                            Human IL4R promoter
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Kit for diagnozing and treating T-cell associated diseases e.g. autoimmune, degenerative nervous system and infectious disease, compruncteic acid primers specifically priming and allowing amplification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Hood
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  lymphoproliferative disease; leukaemia; lymphoma; cancer; brain cancer; breast cancer; ss; primer; microsatellite.
                                                                                                                   17-JUN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; SEQ ID NO 1276; 164pp; English.
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19-SEP-1995;
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                                                                                                                                                                                              ADM29039 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Vbeta gene
                                                                                                                                                                                                                                                                                                                                                                                            Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       as leukaemias,
st. The present
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                                                                                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                    TGCTCTCCAGCCTGGCTG 5016
                                                                                                                                                                                                                                                                                           TGCACTCCAGCCTGGATG 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Rowen L;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 BP; 3 A; 6 C; 5 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                   (first
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95US-00531241.
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                                                                                                                                                                                              DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       lymphomas and cancers such as cancer of the brain, sequence represents a Vbeta microsatellite primer.
                                                                            polymorphism related primer SEQ ID NO:79.
                                                                                                                 entry)
                                                                                                                                                                                                                                                                                                                                                                                          88.9%;
                                                                                                                                                                                              98
                                                                                                                                                                                                                                                                                                                                                                        0
                                                                                                                                                                                                                                                                                                                                                                                          Score 14.8; DB 1;
Pred. No. 8.5e+02;
                                                                                                                                                                                                                                                                                                                                                                        Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                            DB 1; Length 18;
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                                                                                                                                                                                                                                                                                                                                                                        Gaps
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                      disease;
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RESULT 1363 ADO26654/c

AD026654

standard; DNA; 18

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CCTGCTCCCAGGACTGAC 18

0

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SEXEXEX

12-AUG-2004

(first entry)

Synthetic leader sequence encoding DNA SEQ

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The present invention describes a method for determining an individual's crisk for type 1 diabetes. The method comprises detecting the presence of CC a type 1 diabetes-associated polymorphism in the interleukin 4 (II4) or CC II13 loci in a nucleic acid sample of the individual, where the presence of the polymorphism indicates the individual's risk for type 1 diabetes. CC The human II4 and II13 genes are located on chromosome 5. Also described is a kit for determining an individual's risk for type 1 diabetes. CC conditions to a type 1 diabetes-associated II4 or II13 polymorphism, and conditions to a type 1 diabetes-associated II4 or II13 polymorphism, and CC individually comprising a sequence that hybridises under stringent CC diabetes. Detection of one or more II4 or II13 polymorphism, and CC diabetes. Detection of one or more II4 or II13 polymorphism in a nucleic carid sample of an individual, is useful for the determination of the present invention are also useful for the determination of the present invention are also useful in the field of immunology and CC molecular biology, in particular for detecting an individual's risk for type 1 diabetes, such as multiple sclerosis, myasthenia gravis, CC ulcerative colitis, pernicious anaemia, rheumatoid archiritis, systemic CC represents a primer for human II4 receptor (II4R) promoter polymorphisms, which is used in the exemplification of the present invention. The human CC unich is used in the exemplification of the present invention. The human II4 receptor (II4R) promoter polymorphisms, which is used in the exemplification of the present invention. The human II4 receptor (II4R) promoter polymorphisms, which is used in the exemplification of the present invention. The human II4 receptor (II4R) promoter polymorphisms, which is used in the exemplification of the present invention.
                                                                                                                                Query Match
Best Local S
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                                                                                                                                                                                                                                                    Sequence 18 BP; 3 A; 8 C; 4 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    04-OCT-2002;
08-OCT-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 1; SEQ ID NO 79; 168pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Detecting an individual's risk for autoimmune diseases, in particular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2004-318714/30
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                                                                                                                                                                                                                                                                                                                            IL4R gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       type 1 diabetes, by determining sequence variants or polymorphisms present at the IL-4 and IL-13 loci.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (HOFF ) ROCHE DIAGNOSTICS GMBH.
                                                                                            Local Similarity nes 16; Conserv
                    3600
CCTGCTCCCAGGAAGGAC 3617
                                                                                                                                                                                                                                                                                                                                is located
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                                                                                                Conservative
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2002US-00267844.
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                                                                                                                                88.9%;
                                                                                                                                                                                                                                                                                                                                on chromosome 16.
                                                                                                                                                                        0.3%;
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                                                                                            0; Mismatches
                                                                                                                                Score 14.8;
Pred. No. 8
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                                                                                                                                    8.5e+02
                                                                                                                                                                            DB 1;
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RESULT 1360
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ID ADA2736
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AC ADA2736
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AC ADA2736
XX
DT 20-NOV-
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                                                                                                                                                                                                                                                                                                                                                     media (EM) including a biodegradable polymer, and an isolated nucleic CC acid homologue sequence (II) encapsulated with EM, where the CC nanoparticles are capable of releasing (II) over an extended period of time. (I) have cytostatic and antimicrobial activities, and can be used CC in gene therapy. (I) can be used for sustained delivery and release of a CC nucleic acid homologue within a subject, by encapsulating a nucleic acid homology within (I), and introducing (I) into the subject. (I) can also be CC used for treating a medical condition of a subject by sustained delivery CC of nucleic acid homologue, by encapsulating an isolated nucleic acid condition within EM, so that nanoparticles are formed, and delivering the CC condition within EM, so that nanoparticles are formed, and delivering the CC condition within the subject, where the isolated nucleic acid homologue composition comprising (I) can be used for treating a medical condition comprising (I) can be used for treating a medical condition conspition comprising (I) can be used for treating a medical condition conspition comprising (I) can be used for treating a medical condition conspition comprising (I) can be used for treating a medical condition conspition comprising (I) can be used for treating a medical condition conspition comprising (I) can be used for treating a medical condition conspition comprising (I) can be used for treating a medical condition conspition comprising (I) can be used for treating a medical condition considered the nucleic acid into the cell very efficiently. The present considered the nucleic acid into the cell very efficiently, which is considered in an example from the present invention
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Nanoparticles for sustained delivery of encapsulated molecule into a living cell, comprising encapsulation media with biodegradable polymer, and isolated nucleic acid homolog sequence encapsulated with medium.
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   20-NOV-2003
                                       ADA27361;
                                                                            ADA27361
                                                                                                                                                                                                                                                                                                                             Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention describes nanoparticles (I) capable of delivery of an encapsulated molecule into a living cell, comprising an encapsulation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 18; Page 32; 97pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      05-DEC-2001; 2001US-0335837P
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                                                                                                                                                                                                                                                   16;
                                                                            standard; DNA;
                                                                                                                                                                                                            GACACCAGTGGGCTTCCA 1040
                                                                                                                                                                        GACACCATGGGGCTTCCA
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                                                                                                                                                                                                                                                                                                                             BP;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /*tag= a
/mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         note= "phosphorothioate linkages"
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                                                                                                                                                                                                                                                                  0.3%;
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                                                                            ВP
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RESULT 1361
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Matches 16
human; T-cell associated disease; Vbeta; autoimmune disease; degenerative nervous system disease; graft versus host disease; hypersensitivity disease; infectious disease; neoplastic disease; hypersensitivity disease; multiple sclerosis; addison's disease; atrophic gastritis; degenerative nervous system disease; multiple sclerosis; degenerative nervous system disease; type I hypersensitivity disease; type I hypersensitivity; allersy; type II hypersensitivity; Goodpasture's syndrome; type IV hypersensitivity; leprosy; infectious disease; viral infection; HIV; fungal infection; Candida; parasitic infection; schiatosome; filaria; bacterial infection; Mycobacterium; neoplastic disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to an oligonucleotide primer capable of specifically hybridising to a DNA having the sequence of the flanking regions of a microsatellite selected from M2-4-9, M2-2-12, M2-3-11, M2-2-20, M2-2-21, M2-2-22, M2-2-23, M2-2-24, M2-4-25, M2-4-26, M2-2-29, M2-2-32, M2-4-37, M2-4-37, M2-3-36, M2-5-11, M2-2-29, M2-2-32, M2-4-33, M2-4-37, M2-3-36, M2-5-11, M2-2-46, and M2-2-48. The primer is useful for determining the number of repeat units of the microsatellite cited above. The primer is useful in HLA-related research, such as genetic mapping of HLA class II-associated diseases, transplantation matching, population genetics, and identification of recombination hot spots as well as linkage disequilibrium studies. The present sequence represents the human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   having the sequence (M249), useful
                                                                                                                                                                                     Human Vbeta
                                                                                                                                                                                                                     25-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     microsatellite repeat M2_3_8.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New oligonucleotide primer capable of specifically hybridizing to a DN having the sequence of the flanking regions of a microsatellite (e.g. M249), useful for HLA-related research, e.g. transplantation matching.
                                                                                                                                                                                                                                                        ADH71082
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                                                                                                                                                                                                                                                                                                                                                                                                           3919
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                                                                                                                                                                                                                                                                                                                                                                                                                                          16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                           CGACGCCGCGGCCGCCGC 3936
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ₽P;
                                                                                                                                                                                     microsatellite primer #25.
                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                research; HLA class ir-security in matching; recombination hot spot ide into the study; human; microsatellite.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C; 12 G; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              HLA class II-associated disease; recombination hot spot identification;
                                                                                                                                                                                                                                                                                       ВP
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Pred. No. 8.5e+02
0; Mismatches
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RESULT 1357
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ID ABT
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Best Local S
Matches 16
                                                                                                                                                                                     The invention relates to a method for detecting Staphylococcus DNA in a sample by nucleic acid amplification using various primers (ABL58823-ABL58848) or their variants. The method is used to detect staphylococci that produce enterotoxins and/or are resistant to antibiotics (methicillin), e.g. in blood or tissue samples, foods, water and bacterial cultures. The method allows simultaneous determination of many genes since the specified primers are functional under the same conditions and it eliminates the need for a lengthy culture stage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      as transfection vehicles. The present sequence represents a nucleic acid product of the invention, which is produced by a solid phase chemical reaction, and is modified at the 5' end by an alpha-oxoaldehyde
                                                                                                                                                                                                                                                                                                                                 Detecting Staphylococcus by nucleic acid amplification, useful for testing e.g. clinical samples, can identify simultaneously enterotoxin and methicillin-resistance genes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Staphylococcus
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                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                            Claim
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Staphylococcus
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                                                                                      1669
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                                                                                                                                                                                                                                                                                                                                                                                       2002-418109/45.
                                                                                                                                                                                                                                                                                                           1; Fig 1; 26pp; German.
                                                                                                                16;
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                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                        MICRODIAGNOSTICS
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                                                                                     TCCTGCAGCAGATGAAGA 1686
                                                                                                                                                                 18
                                                                                                                                                                BP; 7
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                                                                                                                Conservative
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                                                                                                                         0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           entry)
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                                                                                                                                                                3 C; 5
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                                                              18
                                                                                                              0;
                                                                                                                                                                G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 14.8; DB 1;
Pred. No. 8.5e+02;
                                                                                                              Score 14.8; DB 1; Pred. No. 8.5e+02; 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          antibiotic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          methicillin; MRSA;
                                                                                                                                        DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   7.
                                                                                                                                      Length 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                Indels
                                                                                                              0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PCR;
                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0;
                                                                                                              0
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ABT21411 standard;

DNA; 18

₽P

delivery; encapsulated molecule; cytostat: sustained delivery; cell proliferation disgenetic defect; aberrant gene regulation;

phosphorothicate;

PDGFR-beta; platelet derived growth factor receptor beta; nanoparticle; delivery; encapsulated molecule; cytostatic; antimicrobial; gene therapy; sustained delivery; cell proliferation disorder; infectious disease;

antisense oligonucleotide;

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RESULT 1359
ACC79761/c
ID ACC7976
밁
                                                                                                                                                                                                                                                                             5
                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                    Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to a novel method for determining racing potential of a horse. The method comprises measuring: whether grandpaternal DNA is over-represented in the genome of the horse; or in the case where one of the grandmothers was selected for breeding on the basis of racing performance, whether grandmaternal DNA from the selected grandmother is over-represented in the genome of the horse which indicates that the horse has good racing potential. The method of the invention is useful for determining the racing potential of a horse or for obtaining a progeny horse with good racing potential. This polynucleotide sequence represents a PCR primer used in the detection method of over-representation of DNA from male grandparents of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Determining the racing potential of a horse comprises measuring whether grandpaternal or grandmaternal DNA from the selected grandmother DNA is over-represented in the genome of the horse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Racing potential; horse; grandpaternal DNA; over-represented; breeding; grandmother; performance; progeny horse; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                           Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Binns MM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              15-MAY-2001; 2001GB-00011886
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Multiplex group
                                                                                                                                                                                    ACC79761 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         15-MAY-2002; 2002WO-GB002273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21-NOV-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO200292851-A2
                                                                                                     Mouse PDGFR-beta antisense oligonucleotide M-AS-PT-ODN SEQ
                                                                                                                               29-AUG-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   16-APR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABT21411;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ANIM-)
                                                                                                                                                                                                                                                                                                                      Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2003-129314/12.
                                                                                                                                                                                                                                                                                800
                                                                                                                                                                                                                                                                                                        16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ANIMAL HEALTH TRUST
BRITISH HORSERACING
                                                                                                                                                                                                                                                                              TCTGCAATACCCTGTGCC 817
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Page 24; 49pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Swinburne
                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                             BP; 4 A; 5 C; 4 G; 5 T; 0 U;
                                                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PCR primer
                                                                                                                                                                                     DNA; 18
                                                                                                                                                                                                                                                                                                                      88.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        #158.
                                                                                                                                                                                                                                                     18
                                                                                                                                                                                                                                                                                                         0;
                                                                                                                                                                                                                                                                                                                       Pred. No.
                                                                                                                                                                                                                                                                                                                                 Score 14.8;
                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                   8.5e+02;
                                                                                                                                                                                                                                                                                                                                                              0 Other;
                                                                                                                                                                                                                                                                                                                                    DB 1;
                                                                                                                                                                                                                                                                                                                                    Length
                                                                                                                                                                                                                                                                                                          Indels
                                                                                                     ID NO:17.
                                                                                                                                                                                                                                                                                                         0
                                                                                                                                                                                                                                                                                                         Gaps
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RESULT 1355
AAH42420/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                á
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cc elongated DNA amplification technology in vitro, which is characterized by that firstly, a pair of specific primers is synthesized according to the target DNA sequence to be amplified, then a repetitive sequence cc complementary oligo-repetitive sequence of 3 target DNA chain whose tail can dis modified and elongation vitality is lost, then the oligo-repetitive sequence, heat-resisting DNA polymerase, dNTP cc repetitive sequence, chain primer, heat-resisting DNA polymerase, dNTP cc substrate, template DNA, magnesium ion, polymerase chain reaction (PCR) buffer solution and ultra-pure water are mixed uniformly and made into a creation system. The reaction system then undergoes the processes of high ctemp, low-temp, medium-tow temp, medium-tomp, and repeated heat circulation treatment in the heat-circulating instrument to obtain cmillion copies of specific target DNA fragments. The invention adopts a cmillion copies of specific target DNA fragments. The invention adopts a continuous copies of specific target DNA fragments. The invention adopts a continuous copies of the circulation process, so that it can produce lots of target DNA fragments. The present sequence was used in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Asynchronous of target DNA
                                                                                                                                                                                                                                                                                                                                                  high
New product comprising nucleic acid linked to a support, useful as
                           WPI; 2001-457296/49.
                                                    Wolowczuk I,
                                                                   Melnyk O,
                                                                                            (INSP )
(CNRS )
(INSP )
                                                                                                                                                  07-DEC-1999;
                                                                                                                                                                         07-DEC-2000;
                                                                                                                                                                                                      14-JUN-2001.
                                                                                                                                                                                                                                                                                  modified_base
                                                                                                                                                                                                                                                                                                                         Synthetic.
                                                                                                                                                                                                                                                                                                                                                                Nucleic acid;
                                                                                                                                                                                                                                                                                                                                                                                      Nucleic acid product modified by an alpha-oxoaldehyde.
                                                                                                                                                                                                                                                                                                                                                                                                                   01-OCT-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAH42420 standard; DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ргосевв
                                                                                                                                                                                                                              WO200142495-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3918
                                                                                                                                                                                                                                                                                                                                                  throughput
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            l Similarity
                                                                                                           INST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCGACGCCGCCGCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cceccecceccecce
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DNA
                                                                  Olivier C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                B₽;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         invention relates to a kind of two chains asynchronously-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         chain-extending polymerase chain reaction A fragments, comprises a multiple repeated
                                                                                                          PASTEUR LILLE
NAT RECH SCI.
                                                                                                                                                                           2000WO-FR003427
                                                                                             PASTEUR.
                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                              DNA chip;
                                                     Huynh-Dinh T,
                                                                                                                                                 99FR-00015392
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0 A;
                                                                                                                                                                                                                                                                                  Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                  screening;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3; 4pp; Chinese
                                                                                                                                                                                                                                                        note=
                                                                                                                                                                                                                                                                      /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6 C; 12
                                                                  Ollivier N,
                                                                                                                                                                                                                                                 a
"Cy3 attached"
                                                                                                                                                                                                                                                                                                                                                 combinatorial chemistry; toxicity;
ng; transfection vehicle; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3935
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               <u>ن</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 14.8;
Pred. No. 8
                                                       Gouyette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0 T;
                                                   Hot D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8.5e+02
                                                       Gras-Masse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ٠.
د
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                       Ξ
                                                                   Lemoine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          for producing lots heat circulation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
    DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0
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FERRING SONO SONO SONO SONO SERVICE SE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   chip, e.g. stably and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         for diagnosis and as transfection vehicle, covalently attached.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       34; 59pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      hae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      nucleic acid
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The specification describes a nucleic acid product attached to a support through a linker. The nucleic acid products of the invention are particularly useful as DNA chips for combinatorial chemistry, i.e. for high throughput screening to identify new genes or pharmaceuticals and for scudying toxicity, also for diagnosis. Alternatively, they are useful as transfection vehicles. The present sequence represents a nucleic acid product of the invention, which is produced by a solid phase chemical reaction, and is modified at the 5' end by an alpha-oxoaldehyde

S Query Match Best Local S Matches 16 1295 GTCCAAGCTCAGCCAACT 1312 Similarity Conservative 0.3%; 0 Score 14.8; DB 1 Pred. No. 8.5e+02 Mismatches Length Indels 0 Gaps 0

Sequence 18

BP; 5 A;

3 C; 5 G; 5 T; 0 U; 0 Other;

밁

18

GTCCAAGCTCAGCTAATT 1

Synthetic 01-OCT-2001 Nucleic acid; DNA chip; combinatorial chemistry; toxicity; high throughput screening; transfection vehicle; ss. Nucleic acid AAH42418; AAH42418 standard; product modified by (first entry) DNA; 18 ₽P an alpha-oxoaldehyde

Key modified_base WO200142495-A2 Location/Qualifiers /*tag= note= "H2N-C6H12 attached'

07-DEC-2000; 2000WO-FR003427 14-JUN-2001.

(INSP) INST PASTEUR LILLE. (CNRS) CENT NAT RECH SCI. (INSP) INST PASTEUR. 07-DEC-1999; 99FR-00015392

Melnyk O, Olivier C, O Wolowczuk I, Huynh-Dinh Ollivier N, Hc nh T, Gouyette te C, D, Huot L, , Gras-Masse

WPI; 2001-457296/49

New product comprising nucleic acid linked chip, e.g. for diagnosis and as transfection e.g. covalently attached. transfection to a support, useful as DNA on vehicle, has nucleic acid

Example Page 21; 59pp; French.

The specification describes a nucleic acid product attached to a suthrough a linker. The nucleic acid products of the invention are particularly useful as DNA chips for combinatorial chemistry. i.e. high throughput screening to identify new genes or pharmaceuticals for studying toxicity, also for diagnosis. Alternatively, they are support for useful

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 1353
                                                                                                                                                                                                                                                                                                                                                                                                          AAA96986/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The intracellular protein TRADD has been identified as a critical link CC between tumour necrosis factor (TNF) receptor binding and downstream CC activation of NF-kappa-B. Overexpression of native TRADD activates NF-CC kappa-B in the absence of TWF and dominant negative mutants of TRADD CC cell types is the induction of apoptosis (programmed cell death). TRADD CC overexpression has been shown to mimic TNF induction of apoptosis as CC well. Data indicates that TRADD and other downstream effector proteins CC are the rate limiting step of TNF action and would therefore serve as the CC most efficient targets for inhibition of TNF-induced events. Antisense CC useful in a number of therapeutic, diagnostic and research applications. CC useful in a number of therapeutic, diagnostic and research applications. CC inhibiting expression of TRADD by contacting human cells or tissues with CC associated with TRADD expression, for example, septic shock, inflammation, or cancer. TRADD antisense oligonucleotides of varying CC inhibitory capabilities are listed in GENESSO records AAZ9343-293517. CC The antisense oligonucleotides exhibit enhanced inhibitory capabilities of wings and a deoxy gap
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Monia BP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 3; Page 51; 85pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New antisense compounds that limit the expression of human TRADD protein, useful in the treatment and diagnosis of cancer, inflammation and septic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2000-237846/20.
                                            20-AUG-1996;
20-JUN-1997;
                                                                                                                                                                                          Arabidopsis sp.
                                                                                                                                                                                                                          transgenic plant; ss.
                                                                                                                                                                                                                                                                                         RAP2.2 AP2 domain amplification PCR primer JORAP2.2U.
                                                                                                                                                                                                                                                                                                                          15-DEC-2000
                                                                                                                                                                                                                                                                                                                                                                                           AAA96986 standard; DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         28-AUG-1998;
             (REGC ) UNIV CALIFORNIA
                                                                                                                            25-JUL-2000
                                                                                                                                                           US6093874-A.
                                                                                                                                                                                                                                        Apetela; AP2 domain; canola; soybean; ANT; RAP; EREBP; flower; seedless; fruit; cherry; melon; tomato; AP2 domain containing; ADC; PCR primer;
                                                                                            15-AUG-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          тосат
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          821 GGAGGAAGAGGACACAGG 838
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             _
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Cowsert LM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BP; 5 A; 4 C; 9 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                          (first entry)
                                            96US-00700152
97US-00879827
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         98US-00143212.
                                                                                             97US-00912272
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0.3%;
                                                                                                                                                                                                                                                                                                                                                                                           ₽P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 14.8; DB 1;
Pred. No. 8.5e+02;
0; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 1; Length 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          <u>.</u>
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CC Arabidopsis sp. and AP2 domain containing genes include RAP2 (related to these proteins contain AP2 like domains. Sequences AAB58813-B2588 CC represent protein fragments and peptides from ADC proteins such as CC RAP2.7. Sequences AAB5882-A97035 represent PCR primers used to isolate CC the ADC genes of the invention. The method is used for modulating seed CC traits in canola and soybean plants and for creating transgenic plants. CC The nucleic acids can be used to confer desired traits on essentially any CC plant by increasing or decreasing gene expression. These may be used to increase seed size, protein, amino acid or oil content in crop plants in CC which seeds are used directly for animal or human consumption or for condustrial purposes, such as soybean, canola and other grains. These may be also be used to decrease seed size or producing seedless varieties in CC such as cherries, melons or tomatoes. Primers, which specifically amplify CC AP2 domains of the genes, are particularly useful for identification of CC particular ADC polynucleotides
Sequence 18 BP; 5 A; 2 C; 9 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                solution relates to a method for modulating seed traits in a soybean or canola plant comprising providing a plant having a recombinant expression cassette containing an ADC (AP2 domain containing) nucleic acid linked to a link account a link acco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Modulating seed traits useful for creating transgenic plants with altered seed size or protein content, by providing a plant with a recombinant expression cassette containing an ADC (AP2 domain containing) nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 acid linked to a plant promoter. ADC gene sequences are represented by AAA96979-A96981. The AP2 gene (APETALA) was originally isolated from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure; Col 10; 60pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2000-514122/46.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Okamuro JK,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        linked to a promoter.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Jofuku KD;
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밁 ş Query Match Best Local Similarity Matches 16; Conserv 322 18 crececaecreaerrec 339 Conservative 88.9%; 0.3%; 0; Score 14.8; DB 1; Length 18; Pred. No. 8.5e+02; Mismatches Indels 0, Gaps 0,

RESULT 1354 AAF85699/c ID AAF8569 Multiple repeated heat process 13-JUL-2001 AAF85699; AAF85699 standard; DNA; 18 BP (first entry) PCR related oligonucleotide #3

Multiple repeated heat circulation; polymerase chain reaction; PCR; target DNA production; DNA synthesis; ds.

Unidentified

03-JAN-2001.

22-JUN-1999; 99CN-00114949

22-JUN-1999; 99CN-00114949

(XIAQ/) XIA Q.

WPI; 2001-245741/26.

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RESULT 1351
AAZ71430/c
ID AAZ71430
XX AAZ7143
AC AAZ7143
XX DT 10-SEP-
XX Human L
XX Human L
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XX Genomic
KW Gen
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAZ65654 to AAZ69578 represent human biallelic markers from the present invention, which contain a polymorphic base at position 24 of their nucleotide sequences. AAZ69579 to AAZ77440 represent amplification primers for the biallelic markers. The biallelic markers of the invention have a variety of uses: they can be used for high density mapping of the human genome, and in complex association studies and haplotyping studies which are useful in determining the genetic basis for disease states. Compositions and methods of the invention can also be useful for the identification of the targets for the development of pharmaceutical agents and diagnostic methods, as well as the characterisation of the differential efficacious responses to and side effects from pharmaceutical agents acting on a disease as well as other treatment. N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and
                                                                                                                                            Human genome; biallelic marker; high density disequilibrium map; genomic map; haplotype; phenotype; polymorphic base; genotyping; haplotyping; hybridisation; identification; characterisation; amplification; single nucleotide polymorphism; SNP; PCR primer;
                                                           Homo sapiens.
                                                                                                                    diagnosis; ss.
                                                                                                                                                                                                                                                                                         Human biallelic marker upstream
                                                                                                                                                                                                                                                                                                                                                        10-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAZ71430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 18
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23-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               genomic map; haplotype; phenotype; polymorphic base; genotyping, haplotyping; hybridisation; identification; characterisation; amplification; single nucleotide polymorphism; SNP; PCR primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 9; Page 2569; 2745pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Novel biallelic markers used to construct a high density disequilibrium
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local Similarity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      of.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      not actually given a sequence in the Sequence Listing from the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Blumenfeld
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                                                                                                                                                                                                                                                                                                                                                  (first entry)
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98US-0109732P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 14.8;
Pred. No. 8
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                                                                                                                                                                                                                                                                                         amplification primer SEQ
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                                                                                                                                                                                                                                                                                            ID NO:5786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0
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RESULT 1352
AAZ93457
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Best Local S
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                                                                                                                                                                 Synthetic.
                                                                                                                                                                                                                                                                            24-JUL-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 18
                                                                                                                      misc_binding
                                                                                                                                                                                           septic
                                                                                                                                                                                                        programmed
                                                                                                                                                                                                                      TRADD; TNF;
                                                                                                                                                                                                                                              TRADD antisense oligonucleotide
                                                    WO200012527-A1
                                                                                                                                                                                                                                                                                                                                 AAZ93457
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          map of the human genome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Novel biallelic markers used to construct a high density disequilibrium
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21-APR-1998;
23-NOV-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local
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                                                                                                                                                                                         shock;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                                                                                                 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Page 1464; 2745pp;
                                                                                                                                                                                                                                                                                                                                                                                                      CTTCCTATCTCTGTCACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Blumenfeld
                                                                                                                                                                                                        cell
                                                                                                                                                                                                     tumour necrosis factor; NF-kappa-B; apoptosis;
sell death; antisense; inhibition; treatment; therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BP; 8 A; 1 C; 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                            (first
                                                                                                                                                                                           inflammation; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     98US-0082614P
98US-0109732P
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                                                                                                                      Location/Qualifiers complement(1. .18)
                                                                      /*tag= a
/note= "Complementary to bases 310-293 of the human TRADD
sequence described in GENESEQ record AAZ93431"
                                                                                                                                                                                                                                                                                                                                 DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              G; 2 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 14.8;
Pred. No. 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                           antiinflammatory; human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        .5e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 18;
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25-AUG-1999;

99WO-US019614.

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RESULT 1349
AAZ70454/c
ID AAZ70454 standard; DNA; 18
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AAC66197/c
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Best Local S
Matches 16
                                                                                                                          Best Local Similarity Matches 16; Conserv
                                                                                                                                      Query Match
Best Local S
                                                                                                                                                                                                       Nucleotide sequence AAC66182 encodes human trypsin hL AAB35701, a serine protease. The invention relates to the human hi gene and protein sequences, to a recombinant vector containing the nucleotide sequence, and a host cell containing the vector. Human trypsin hL can be used for screening for serine protease inhibitors, in the preparation of a lung disease model animal, and for the development of an index marker of lung diseases caused by an anti-trypsin hL antibody. The present sequence represents a PCR primer used in the identification of trypsin hL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           drug-drug interactions and adverse side effects. The polymorphisms can used as single nucleotide polymorphisms (SNNe) for detecting genetic linkage related to phenotypic variation in activity or expression of UGT2B protein. The polymorphism containing nucleic acid molecules may also be used for generating genetically modified non-human animals and for obtaining site specific gene modification in cell lines
                                                                                                                                                                                                                                                                                                                                                               Novel gene encoding a serine protease and serine protease inhibitors and to prepare
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  JP2000253887-A.
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                                                                                                                                                                                Sequence 18 BP; 1 A;
                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2000-658814/64.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; trypsin hL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PCR primer
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                                                                                                                                                                                                                                                                                                                                      Disclosure; Page 8; 17pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                     (TTPH-) TT PHARMA KK.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PCR primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAC66197
                                                                                                3047
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                                                                                    CTTCCAGGGGGAGATCAA 3064
                                                                    CATCCAGGGGGAGAGCAA 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         88.
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                                                                                                                           Conservative
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                                                                                                                                    0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     serine protease; lung disease model animal;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA; 18
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                                                                                                                                                                                7 C; 4 G; 6 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               trypsin hL identification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BP
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                                                                                                                                       Score 14.8; DB 1;
Pred. No. 8.5e+02;
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Pred. No. 8
                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
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                                                                                                                                                                                                                                                                                                                                                                its protein used to lung disease animal
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The polymorphisms can be
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                                                                                                                           Indels
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В₽

Human genome;

biallelic marker; high density disequilibrium map;

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ARESULT 1350
AAZ76614/c
ID AAZ7661
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AC AAZ7661
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10-SEP-
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DE Human b
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Human g
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human genome; biallelic marker; high density disequilibrium map; genomic map; haplotype; phenotype; polymorphic base; genotyping; haplotyping; hybridisation; dentification; characterisation; haplotyping; hybridisation; dentification; SNP; PCR primer; amplification; single nucleotide polymorphism; SNP; PCR primer;
                                                                                                                                                                                                                                                                                                                                                                                      Sequence 18 BP; 4 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 8;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Cohen D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         21-APR-1998;
23-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   28-OCT-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           diagnosis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human biallelic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAZ70454;
                                      Human biallelic marker downstream amplification primer SEQ ID NO:10970
                                                                                                                AAZ76614;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Novel biallelic markers used to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO9954500-A2
                                                                          10-SEP-2001
                                                                                                                                                AAZ76614 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                          present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (GEST ) GENSET
                                                                                                                                                                                                                                                                            5192
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      of the human genome
                                                                                                                                                                                                                                           18
                                                                                                                                                                                                                                                                                                                  16;
                                                                                                                                                                                                                                                                          GTGTGTGAATGCAGAAGG 5209
                                                                                                                                                                                                                                           GTGTATGAATGGAGAAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Page 1256; 2745pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Blumenfeld
                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                          (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         98US-0109732P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           98US-0082614P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 99WO-IB000822.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    marker upstream amplification primer
                                                                                                                                                DNA;
                                                                        entry)
                                                                                                                                                                                                                                                                                                                                 0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Z
                                                                                                                                                                                                                                                                                                                                                                                      8 C; 0 G;
                                                                                                                                                18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Chumakov
                                                                                                                                                                                                                                                                                                              0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      English.
                                                                                                                                                                                                                                                                                                                                 Score 14.8;
Pred. No. 8.
                                                                                                                                                                                                                                                                                                                                                                                        6 T;
                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           construct a high density disequilibrium
                                                                                                                                                                                                                                                                                                                                                                                      0 U; 0 Other;
                                                                                                                                                                                                                                                                                                              8.5e+02;
ches 2;
                                                                                                                                                                                                                                                                                                                                                    DB 1;
                                                                                                                                                                                                                                                                                                                                                    Length 18;
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                                                                                                                                                                                                                                                                                                                  Gaps
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RESULT 1346
AAZ9518/c
ID AAZ9518/c
ID AAZ9518
XX AAZ9518
XX AAZ9518
XX DF-GUN-
XX UDP-GLU
KW drug in
KW primer;
XX W020000
XX Synthet
XX W020000
XX W020000
XX GAYYS-)
XX GAYYS-
XX GA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               문
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Best Local S
Matches 16
                          of the human UDP-glucuronosyltransferate 2B15 (UGT2B15) gene. UDP-glucuronosyltransferates (UGT8) are a family of enzymes that catalyse the glucuronic acid conjugation of a wide range of endogenous and exogenous substrates. The UGT2B gene subfamily encode steroid metabolizing isoforms in the liver. Alteration of the expression or function of UGTs may effect
                                                                                                                                                                                                                                                          Novel human UDP-glucuronosyltransferase sequence, polymorphisms for genotyping individuals to predict rate of metabolism of substrates for identifying potential drug interactions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This invention describes novel antisense oligonucleotides (OGNs) (I) 8-2 nucleotides in length that specifically hybridize with and inhibit nucleic acids encoding human Fas-associated death domain (FADD), targete to the 3' untranslated region (3'UTR). (I) can be used to treat animals, especially humans, suspected of having or being prone to a disease or condition associated with FADD expression. AAZ44746-Z44831 represent primers and probes used in the method of the invention
                                                                                                                                                                                                                 Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28-JUL-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     22-JUL-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        10-FEB-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WO200006776-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               UDP-glucuronosyltransferase 2B15; UGT2B15; polymorphism; metabolism;
drug interaction; detect; human; single nucleotide polymorphism; SNPs;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Reverse primer #4 used to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     05-JUN-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAZ95188;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Antisense oligonucleotides, use death domain (FADD) expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Monia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAZ95188 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (AXYS-) AXYS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3344
        metabolism.
                                                                                                                              equence represents a primer used to sequence polymorphic fragments human UDP-glucuronosyltransferase 2B15 (UGT2B15) gene. UDP-
                                                                                                                                                                                                                                                                                                                                                                                                                         M, Miller A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           16; Conser
                                                                                                                                                                                                                 ω
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cowsert LM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BP; 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Col 47-48;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  98US-0094391P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  99WO-US016675
                                                                                                                                                                                                               25; 72pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            7 C; 5
        invention relates to non-chromosomal nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                           Penny
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   37pp;
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                                                                                                                                                                                                                 English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sequence UGT2B15 polymorphic fragments.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    useful
ion are
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 14.8; I
Pred. No. 8.5e
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               G; 2 T; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         English.
                                                                                                                                                                                                                                                                                                                                                                                                                           Riedy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  for inhibiting human Fas-associated targeted to the 3' untranslated reg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Zhang H;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8.5e+02;
2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 18;
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                                                                                                                                                                                                                                                                                             and
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                                                                     Matches
                                                                                      Query Match
Best Local
                                                                                                                                                                     molecules, which comprise human UGT2B sequence polymorphisms (see AAZ95051-Z95110). Probes which detect the UGT2B Locus polymorphisms can be used to detect altered UGT2B metabolism of a substrate in an individual. The nucleic acid molecules comprising a human UGT2B sequence polymorphism can be used in screening assays for genotyping individuals, also to predict their rate of metabolism of UGT2B substrate, potential drug-drug interactions and adverse side effects. The polymorphisms can be used as single nucleotide polymorphisms (SNPs) for detecting genetic linkage related to phenotypic variation in activity or expression of UGT2B protein. The polymorphism containing nucleic acid molecules may also be used for generating genetically modified non-human animals and for obtaining site specific gene modification in cell lines
                                                                                                                                           Sequence 18
                                   1882
18
                                                                     16;
                                                                                      Similarity
                      AGAAGGAGTGGCTGGAGA 1899
 AGAAGGAATGGCTGGATA 1
                                                                                                                                           BP; 3 A;
                                                                     Conservative
                                                                                      0.3%;
                                                                                                                                           7 C; 1
                                                                                                                                           <u>ი</u>
                                                                   0,
                                                                                      Score 14.8;
Pred. No. 8
                                                                                                                                            7 T;
                                                                     Mismatches
                                                                                                                                            0
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                                                                                      8.5e+02;
                                                                                                                                            0 Other;
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                                                                                                       Length
                                                                     Indels
                                                                     0
                                                                     Gaps
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grug Homo 10-FEB-2000 WO200006776-A1 PCR primer; ss. UDP-glucuronosyltransferase 2B15; UGT2B15; Secondary 05-JUN-2000 AAZ95172 interaction; standard; DNA; 18 reverse (first entry) PCR primer for human UGT2B15 exon 2 amplification detect; se 2B15; UGT2B15; polymorphism; metabolism; human; single nucleotide polymorphism; SNF

10-FEB-2000. 22-JUL-1999; 99WO-US016675 28-JUL-1998; 98US-0094391P

Galvin M,

Miller A,

Penny L,

Riedy

3

(AXYS-) AXYS

PHARM INC

WPI; 2000-195321/17.

Novel human UDP-glucuronosyltransferase sequence, polymorphisms for genotyping individuals to predict rate of metabolism of substrates for identifying potential drug interactions.

Example 3; Page 24; 72pp; English.

This sequence represents a PCR primer used to amplify a fragment of the human UDP-glucuronosyltransferase 2B15 (UGT2B15) gene. UDP-glucuronosyltransferases (UGT3B) are a family of enzymes that catalyse the glucuronic acid conjugation of a wide range of endogenous and exogenous substrates. The UGT2B gene subfamily encode steroid metabolizing isoforms in the liver. Alteration of the expression or function of UGT3 may effect drug metabolism. The invention relates to non-chromosomal nucleic acid molecules, which comprise human UGT2B sequence polymorphisms (see AAZ95031-Z95110). Probes which detect the UGT2B locus polymorphisms can be used to detect altered UGT2B metabolism of a substrate in an individual. The nucleic acid molecules comprising a human UGT2B sequence polymorphism can be used in screening assays for genotyping individuals, also to predict their rate of metabolism of UGT2B substrate, potential

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1X5X2XX2X2X2XXX
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                                                                                                                                                                   RESULT 1344
AAZ07671/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 1343
AAV95244/c
                                                                                                                                                                                                                                                                        Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ribozymes targetted to interleukin 2 - useful for treating e.g. cancer, autoimmune disease and allergies.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAV95244 standard; RNA; 18
          Synthetic
                                                                                                                                                                                                                                                                                                                              Sequence 18
                                                                                                                                                                                                                                                                                                                                                                The present sequence invention describes ribozymes targeted to modulate the synthesis and/or expression of interleukin (IL)-2R gamma encoded RNA. AAV93889 to AAV94574 represent specifically claimed ribozymes, and AAV94575 to AAV95260 represent specifically claimed substrate sequences from the present invention. The ribozymes can be used for the treatment of, e.g. graft rejection, autoimmune disease, cancer, psoriasis, allergy and other inflammatory conditions. The ribozymes are also used to induce
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 4; Page 49; 61pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Stinchcomb DT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   graft rejection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Canine IL-2
                                                ADC gene;
                                                                        RAP2.2 gene specific primer JORAP2.2U
                                                                                                                              AAZ07671;
                                                                                                                                                      AAZ07671 standard; DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1998-333332/29.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human; IL-2 receptor g-chain; interleukin 2 receptor gamma chain; hammerhead ribozyme; hairpin ribozyme; substrate; expression; cancer; autoimmune disease; psoriasis; allergy; inflammatory disease;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAV95244;
                                     seed mass
                                                                                                     29-OCT-1999
                                                                                                                                                                                                                                                                                                                                                       tolerance in a recipient to alloantigen from a donor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (RIBO-) RIBOZYME PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 02-DEC-1997;
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                                                                                                                                                                                                                                         2413 AGGAAGAAATCACGTTTG 2430
                                                                                                                                                                                                                        18
                                                                                                                                                                                                                                                                          16;
                                                                                                                                                                                                                                                                                        Similarity
                                                                                                                                                                                                                       AGGAAGAAATCAGGTGTG 1
                                  AP2 domain containing gene; regulatory gene; APETALA2; modulation; genetic engineering; transgenic plant; PCR
                                                                                                                                                                                                                                                                                                                             BP; 3 A; 7 C; 1 G; 0 T; 7 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    receptor g-chain substrate position 114.
                                                                                                                                                                                                                                                                          Conservative
                                                                                                  (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mcswiggen JA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      88
                                                                                                  entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              entry)
                                                                                                                                                                                                                                                                                   0.3%;
                                                                                                                                                      ВP
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                                                                                                                                                                                                                                                                        0;
                                                                                                                                                                                                                                                                                     Score 14.8; DB 1;
Pred. No. 8.5e+02;
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                                                                                                                                                                                                                                                                                                  DB 1;
                                                                                                                                                                                                                                                                                                 Length 18;
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                                                                                                                                                                                                                                                                        Gaps
                                  ss;
primer.
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RESULT 1345
AAZ44753
ID AAZ4475
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    seed protein using ADC (AP2 domain controlling seed size and total CC regulatory gene, over expression and antisense gene constructs. The CC method of modulating seed mass in a plant comprises: providing a first CD plant comprising a recombinant expression cassette containing an ADC CC crossing the first plant with a second plant, thereby producing a CC plurality of seeds; and selecting seeds with altered mass. The methods of CC expression. Enhanced ADC expression loads to smaller seeds or seedless CC fruit. The methods can be used to enhance or increase endogenous gene CC expression. Enhanced ADC expression leads to smaller seeds or seedless CC fruit. The methods can be used to produce a broad range of transgenic CC plants. Increasing seed size, amino acid content, and oil content is CC crice, wheat, corn, rye, etc.. Decreasing seeds size is useful in plants CC grown for their fruit and where large seeds are undesirable, e.g. cucumbers, tomatoes, cherries, melons. Sequences AAZO7667-690 represent CC primers based on the sequence of RAP2 genes. These are used for CC amplifying the AP2 domains of the genes
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 18 BP; 5 A; 2 C; 9 G; 2 T; 0 U; 0 Other;
                           19-JUL-1999;
                                                         19-JUL-1999;
                                                                                                                                                                           FADD; human; antisense; inhibitor; Fas-associated death domain; primer;
probe; ss.
                                                                                                                                                                                                                                                   19-APR-2000
                                                                                                                                                                                                                                                                                 AAZ44753;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; Page 14; 104pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Novel methods for modulating seed mass and other plant traits using new expression cassettes containing a plant promoter.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 1999-518486/43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Jofuku KD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        19-FEB-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 26-AUG-1999
                                                                                      18-JAN-2000
                                                                                                                                              Homo sapiens
                                                                                                                                                                                                                      Human FADD primer ISIS #23853
                                                                                                                                                                                                                                                                                                             AAZ44753 standard; DNA; 18 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               W09941974-A1
(ISIS-) ISIS PHARM INC
                                                                                                                US6015712-A.
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                                                                                                                                                                                                                                                                                                                                                                                     18
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                                                                                                                                                                                                                                                                                                                                                                                                      CTCCGCAGCTCAGTTTCC 339
                                                                                                                                                                                                                                                                                                                                                                                     CTCCGCAGCCCATTTTCC 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                   (first entry)
                           99US-00357072
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                                                         99US-00357072.
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Pred. No. 8.
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Mismatches
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Matches
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                                         The present invention describes an enzymatic nucleic acid molecule (I) with RNA cleaving activity, which modulates the expression of a plant gene. Also described is a gene comprising a cDNA sequence encoding maize Delta-9 desaturase. (I) can be used to modulate expression of a gene, preferably Delta-9 desaturase or a granule bound starch synthase (GBSS) gene, in a plant (preferably a maize or canola plant). (I) can be used to modulate caffeine synthesis in a coffee plant, nicotine production in a tobacco plant, fruit ripening processes in an apple, tomato, pear, plum or peach plant, flower pigmentation in a rose, petunia, chrysanthemum or marigold plant or lignin production in a tobacco, aspen, poplar or pine
                                                                                                                                                                                                                                                                                                                                 Zwick MG,
Young SA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Oligonucleotides with sequencing tails designed in inverse orientation at intervals along the cDNAs primed PCR amplification from the cyclised templates. Comparison of these sequences with the cDNA sequences placed exon boundaries at the divergence points. See also AAQ33158-252. (Updated on 25-MAR-2003 to correct PN field.) (Updated on 25-MAR-2003 to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     granule bound starch synthase; had modulation; gene expression; transcaffeine synthesis; coffee plant;
                                                                                                                                                                                                                                                        Ribozyme which modulates plant gene expression of DELTA-9 desaturase or
                                                                                                                                                                                                             Claim 40; Page 93; 155pp;
                                                                                                                                                                                                                                                                                                     WPI; 1997-202224/18
                                                                                                                                                                                                                                                                                                                                                                              (RIBO-)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Delta-9 desaturase hairpin ribozyme substrate SEQ ID NO:1167.
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Folkerts
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                                                                                                                                                                                                                                                                                                                                 Mcswiggen JA,
Merlo DJ;
                                                                                                                                                                                                             English
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Pred. No. 8.
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                                                                                                                                                                                                                                                       expression - pgranule bound
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                                                                                                                                                                                                                                                       preferably modulates
d starch synthase in
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     canola plant;
                                                                                                                                                                                                                                                                                                                                                Skokut TA;
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Query Match

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Other;

Score 14.8;

DB 1; Length 18;

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Matches 16; Conserv
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AAV21068/c
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                                                                                                                  CC Primer JORAP2.2U was used with primer JORAP2.2L (AAV21069) to amplify the AP2 domain of the Arabidopsis RAP2.2 (related to AP2) gene. The PCR CC product could then be used to identify AP2 domain containing (ADC) curie cacids, e.g. from a cDNA library, by using hybridisation CC v21115. The invention provides a method for modulating seed mass in CC v21115. The method involves producing transgenic plants comprising a cc recombinant expression cassette containing an ADC nucleic acid linked to plant promoter. In the example given, the Arabidopsis AP2 gene coding cregion was fused with the cauliflower mosaic virus (CMV) 35 constitutive promoter in the sense or antisense orientations. The genetic constructs were introduced into Arabidopsis and tobacco plants. The 355/AP2 content. Therefore this method is claimed to be useful in producing content. Therefore this method is claimed to be useful in producing content. Therefore this method is claimed to be useful in producing content. Carbohydrate content or oil content, or producing seedless
                           Best Loc
Matches
                                                      Query Match
                                                                                 Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                             Use of AP2 domain containing nucleic acid(s) - for producing plants with modulated seed mass, e.g. increased protein, carbohydrate or oil content.
                                                                                                          varieties of crop
                                                                                                                                                                                                                                                                                                                                                    Disclosure; Page 13; 68pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 1998-179060/16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Jofuku
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20-AUG-1996;
20-JUN-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WO9807842-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Arabidopsis sp.
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                                         Local
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                                        Similarity
  CTCCGCAGCTCAGTTTCC
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                           0.3%;
nilarity 88.9%;
Conservative
                                                                                 BP; 5
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                                                                                                                                                                                                                                                                                                                                                                                plants.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ass; AP2 domain containing gene; Arabidopsis; CMV; PCR; mosaic virus; tobacco plant; primer; amplification; ss.
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97US-00879827.
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                                                                               2 C; 9
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                       Pred. No. 8.50
0; Mismatches
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                                                      Score
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                                           14.8;
No. 8
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                                         .5e+02;
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                                                      DB 1;
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                             Indels
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ADH70572/c
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Best Local
                                                                                                                                                                                                                      Hood
                                                                                                                                                                                                                                                                                                                                                                                                                                                     degenerative nervous system disease; graft versus host disease; hypersensitivity disease; infectious disease; neoplastic disease; addison's disease; atrophic gastritis; addison's disease; atrophic gastritis; degenerative nervous system disease; multiple sclerosis; degenerative nervous system disease; multiple sclerosis; allerier's disease; hypersensitivity disease; type I hypersensitivity; Goodpasture's syndrome; type II hypersensitivity; leprosy; infectious disease; viral infection; HIV; fungal infection; Candida; parasitic infection; schistosome; filaria; bacterial infection; Mycobacterium; neoplastic disease; leukaemia; lymphoma; cancer; brain cancer; hypersensitive disease; leukaemia; lymphoma; cancer; brain cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention relates to loblolly pine polynucleotides with one or more Simple Sequence Repeats (SSRs) (see AAA74205-A74322). The present sequence is one such SSR repeat. SSRs are also known as microsatellite DNA repeats. The SSRs are useful as genetic markers for genetic mapping, population genetics studies and inheritance studies in various plant
                                                                                                                                               Kit for diagnozing and treating T-cell associated diseases e.g. autoimmune, degenerative nervous system and infectious disease,
                                                                                                                                                                                                                                                                                        19-SEP-1994;
19-SEP-1995;
                                                                                                                                                                                                                                                                                                                                 05-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                              17-OCT-2002
                                                                                                                                                                                                                                                                                                                                                                                                                   Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human Vbeta gene repeat sequence #362.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 36 BP; 12 A; 0 C; 0 G;
                                                                                                                                   nucleic acid
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                                                                                                                                                                                                                                                                (HOOD/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   human; T-cell associated disease; Vbeta; autoimmune
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                                                                                                                                                                                                                                                                                                                                                                                                                                             cancer;
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                                                                                                                                   primers specifically
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95US-00531241.
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                                                                                                                                  and allowing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 disease;
                                                                                                                                disease, comprises amplification of a
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
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The invention relates to a kit for diagnosing and treating T-cell associated diseases which comprises a panel of nucleic acid primers specifically priming and allowing amplification of each Vbeta gene, VbetaRNA or CDNA. The kit is useful for diagnosing organ transplant rejection and diagnosing and treating T-cell associated diseases

SEQ

ID NO

766;

164pp;

English

autoimmune diseases,

degenerative nervous

This PCR primer was used to detect subtle mutations in the DP1 was used with AAQ33159. To obtain DNA sequence adjacent to the the gene, sequencing substrate was obtained by inverse PCR amp1 of DNAs from two YACs 310D8 and 183H12 that span the deletions at low concentration cyclized the restriction enzyme digested Y

R amplification ions. Ligation ted YAC DNAs.

gene.

colorectal cancer. Detection of somatic to diagnose, treat an

ic and germ-line alterations of human APC and study familial adenomatosus polyposia

polyposis

gene s and

sporadic used

Table 3; 132pp; English

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ΧX
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              and neoplastic diseases. Autoimmune diseases include Addison's disease, atrophic gastritis. Degenerative nervous system diseases include multiple sclerosis and Alzheimer's disease. Hypersensitivity diseases include Type I hypersensitivities such as contact with allergens that lead to allergies. Type II hypersensitivities such as those present in Goodpasture's syndrome and Type IV hypersensitivities such as those manifested in leprosy. Infectious diseases include viral infections caused by viruses such as HIV, fungal infections such as those caused by schistosomes, filaria and bacterial infections such as those caused by Mycobacterium. Neoplastic diseases include lymphoproliferative diseases such as leukaemias, lymphomas and cancers such as cancer of the brain,
                                                                                                                                         WPI; 1992-284685/34.
                                                                                                                                                                Nakamura
                                                                                                                                                                                        Kinzler KW,
                                                                                                                                                                                                             (ICIL )
(UTAH )
(CANC-)
                                                                                                                                                                                                                                                                       16-JAN-1991;
08-AUG-1991;
                                                                                                                                                                                                                                                                                                                                  06-AUG-1992
                                                                                                                                                                                                                                                                                                                                                                                                      prognosis;
                                                                                                                                                                                                                                                                                                                                                                                                                   neoplasm;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAQ33158;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 37 BP; 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             graft versus host disease,
                                                                                                                                                                                                                                                                                                           16-JAN-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                          PCR primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           25-MAR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAQ33158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      breast. The present sequence represents a Vbeta gene repeat sequence
                                                                                                                                                                             Albertsen
                                                                                                                                                                                                                                                                                                                                                        WO9213103-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 28-JAN-1993
                                                                                                                                                                                                                                                 (OLYU)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4409 TATAGATAATAATAATAATAATAATAAT 4439
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    37
                                                                                                                                                             , Υ,
Ή
                                                                                                                                                                                                                         IMPERIAL CHEM UNIV UTAH.
                                                                                                                                                                                                                                                 SNHOF AIND
                                                                                                                                                                                                               CANCER INST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TATTATTATTATTATTATTATTATTATTATT
                                                                                                                                                                                                                                                                                                                                                                                                                cancer; oncogene; tumour; growth; detection; diagnosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                          #1
                                                                                                                                                                                                                                                                                                                                                                                                     treatment; sporadic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                          Vogelstein B,
Carlson ML,
                                                                                                                                                                                                                                                                                                                                                                                                                                                               (revised)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                        to identify subtle DP1 mutations.
                                                                                                                                                                                                                                                                       91US-00741940.
                                                                                                                                                                                                                                                                                                           92WO-US000376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; 0 C; 0 G; 12 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0.3%;
                                                                                                                                                                                                                                     IND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             hypersensitivity diseases,
                                                                                                                                                                           Groden
                                                                                                                                                                          Anand R,
Groden JL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 15; I
Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                       colorectal carcinomas; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                          Hedge PJ,
Joslyn G,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             .8e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  10;
                                                                                                                                                                           ç,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length
                                                                                                                                                                          Markham AF;
Thliveris
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              infectious diseases
                                                                                                                                                                           A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                           White
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RESULT 1337
AAA7433
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AAA7433
XX
AC AAA7433
XX
Lobloll
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Lobloll
XX
Lobloll
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Lobloll
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Lobloll
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Lobloll
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Panet k
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Panet k
XX
Pinus t

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Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention provides a method for identifying a set of extendible primers which can be used in the identification, typing and classification of genes. This can then be used to predict protein sequence and structure, in organ donation to match the organ with the receiver, and to identify bacteria in a sample. The method can be used type the human leukocyte antigen genes (HLA) and 16s rRNA genes in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DNA sequence and gene typing; orghuman leukocyte
    15-JAN-1999;
19-JAN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Identifying extendible primers for use in identification, or classification of a nucleic acid of an organism, allele or gene such as class 1/2 HIA comprises identifying all possible nucleotide sequences of specific length.
                                                                        06-JAN-2000; 2000WO-US000325
                                                                                                                                                                         WO200042210-A2
                                                                                                                                                                                                                      Pinus taeda
                                                                                                                                                                                                                                                                                            Loblolly pine; Simple Sequence Repeat; SSR; genetic marker; mapping; inheritance study;
                                                                                                                                                                                                                                                                                                                                                                  Loblolly pine
                                                                                                                                                                                                                                                                                                                                                                                                                    29-NOV-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAA74332;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAA74332
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 14; Page 36; 66pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ulfendahl P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20-APR-2000; 2000WO-EP003636
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              02-NOV-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WO200065088-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    HLA DQB gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (AMSH ) AMERSHAM PHARMACIA BIOTECH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4146
                                                                                                                                                                                                                                                                   breeding programme; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CCGGGACCTCCTGCTGGCTCCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ccaccacriccircicciccicric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BP; 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  analysis; sequencing; protein sequence; protein structure;
organ donation; bacteria identification; 16s rRNA; HLA;
yte antigen; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PCR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Wong
                                                                                                                                                                                                                                                                                                                                                                       SSR repeat of locus RIPPT77.
                                                                                                                                                                                                                                                                                                                                                                                                                       (first
  99US-00232884
99US-00232785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               99EP-00303215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ×
                                                                                                                                                                                                                                                                                                                                                                                                                       entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5 C; 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      #36.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 15; DB
Pred. No. 1.3e
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ΑB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 1; 1
1.3e+03;
                                                                                                                                                                                                                                                                                            microsatellite DNA repeat; population genetics study;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  nucleotide sequences of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  25;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g a set or typing a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0,
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(INTO) INT FAL.
(ECHT) ECHT C S.
(NELS/) NELSON C D.
(NELS/) US SEC OF AGRIC.

cs,

Nelson CD;

2000-482836/42.

15-JAN-1999;

99US-00232884 99US-00232785

19-JAN-1999;

06-JAN-2000; 2000WO-US000325

20-JUL-2000.

Polynucleotide having simple sequence repeat useful as markers in plants for genetic characterization e.g. genetic mapping study, an inheritance study of a commercially important trait in a plant breeding program.

Example; Page 49; 57pp; English.

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RESULT 1338
AAA74333
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local S
Matches 21
                                                                                                                                                                                                                                                                    Loblolly pine; Simple Sequence Repeat; SSR; genetic marker; mapping; inheritance study;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention relates to loblolly pine polynucleotides or more Simple Sequence Repeats (SSRs) (see AAA74205-A74322). T sequence is one such SSR repeat. SSRs are also known as microsa DNA repeats. The SSRs are useful as genetic markers for genetic population genetics studies and inheritance studies in various
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Polynucleotide having simple sequence repeat useful as markers in plants for genetic characterization e.g. genetic mapping study, an inheritance study of a commercially important trait in a plant breeding program.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (INTO)
(ECHT/)
(NELS/)
(USDA)
                                                                                                                                                                                                                                                                                                 Loblolly pine
                                                                                                                                                                                                                                                                                                                                        AAA74333;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 33
                                                                                                                                                                                                                      WC200042210-A2
                                                                                                                                                                                                                                        Pinus taeda
                                                                                                                                                                                                                                                            plant breeding
                                                                                                                                                                                                                                                                                                                      29-NOV-2000
                                                                                                                                                                                                                                                                                                                                                             AAA74333 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              breeding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example; Page 49; 57pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2000-482836/42.
                                                                                                                                                                                                                                                                                                                                                                                                                                 4409
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cs,
                                                                                                                                                                                                                                                                                                                                                                                                                                                     21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ) ECHT C S.
) NELSON C D.
) US SEC OF A
                                                                                                                                                                                                                                                                                                                                                                                                              w
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                              TATTATTATTATTATTATTATTATTATTATT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             programmes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Nelson CD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BP; 11 A; 0 C; 0 G; 22 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                  SSR repeat of
                                                                                                                                                                                                                                                           programme;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGRIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                             0.3%;
                                                                                                                                                                                                                                                                                                                                                             36
                                                                                                                                                                                                                                                                                                                                                              ВP
                                                                                                                                                                                                                                                                                                   locus RIPPT79.
                                                                                                                                                                                                                                                                                                                                                                                                                                                     0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 15;
Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 1;
1.7e+03
                                                                                                                                                                                                                                                                                                                                                                                                                                 4439
                                                                                                                                                                                                                                                                   microsatellite DNA repeat; population genetics study:
                                                                                                                                                                                                                                                                                                                                                                                                                                                     10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 33;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                i-A74322). The present as microsatellite for genetic mapping,
                                                                                                                                                                                                                                                                                                                                                                                                                                                     0
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ঠ
                                                                                                                                              RESULT 1334
ADQ88658
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                뭐
                                               Query Match
Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
Matches 18; Conserv
                                                                                                                                                                                                                                                     similarity to luciferase of Photinus pyralis, Luciola mingrelica, L.cruciata, L.lateralis, Hotaria paroula, Pyrophorus plagiophthalamus, Lampyris moctiluca, Pyrocoelia nayako or Photinus pennsylanvanica, where in the luciferase, an amino acid is different from a corresponding residue in wild-type and has increased thermostability. Also included are a nucleic acid which encodes the thermostable luciferase, a vector comprising the nucleic acid, a cell transformed with the vector, a plant comprising the cell, producing the thermostable luciferase and a kit comprising the thermostable luciferase and comprising the thermostable luciferase. The thermostable luciferase is useful in any bioluminescent assay which utilises luciferase/luciferin reaction as signaling mode. The present sequence is probably a mutagenic comprising the companion of the comprision of the comprisi
                                                                                                                                                                                      PCR primer used to construct a DNA encoding a mutant Photinus pyralis, however it is displayed in figure a referred to anywhere in the specification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADQ88658 standard; DNA; 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        reducing the symptoms of a bacterial infection by biofilm-producing bacteria in a mammalian patient involves administering an antibacto
                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New luciferase enzyme having mutant form of the wild-type
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2004-526119/51.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Murray JAH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         23-JAN-2004; 2004AU-00200277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         19-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Thermostable firefly luciferase mutant-associated primer SAC1-SENSE/6371.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           23-SEP-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADQ88658;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      agent and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to a luciferase (thermostable mutant) having 60%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; Fig 8; 40pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Squirrell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (MINA ) UK SEC FOR DEFENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         23-JAN-2004; 2004AU-00200277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AU2004200277-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       luciferin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         luciferase;
  3832 CCCCGGTCAGCTCCCAGGCCCCG 3854
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2312 CATCATCCAAAAAATCAAGCAGC 2334
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             23 CATCATCTTCAAACTCACGCAGC 1
                                                                      Similarity
                                                                                                                                            23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    in a mammalian patient involves administering an antibacterial decreasing biofilm formation through modulation of csrC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BP; 5 A; 2 C; 9 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           thermostable
                                               Conservative
                                                                                                                                            BP; 1 A; 12 C; 8 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Tisi LC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                 0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               White PJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           mutant;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0;
                                             0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 15;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              increased thermostability and which is a enzyme, useful for bioluminescent assays.
                                                                      Score 15; DB 1;
Pred. No. 1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           88;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Lowe CR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PCR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Price RL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 23
                                                                                            Length 23;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           bioluminescent
                                                                                                                                                                                                               8
                                                                                                                                                                                                               a figure not
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Murphy MJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       °,
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                                               Gaps
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RESULT 1336
AAC95607/c
ID AAC9560
XX
AC AAC9560
XX
AC AAC9560
XX
DT 26-FEB-

AAC95607;

AAC95607 standard;

DNA;

25

ВP

0

26-FEB-2001

(first entry)

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RESULT 1335
ADQ88659/c
ID ADQ8865
XX ADQ8865
XX ADQ8865
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                                                                                                                                 Query Match
Best Local Similarity
                                                              Matches
                                                                                                                                                                                                        similarity to luciferase of Photinus pyralis, Luciola mingrelica, L. Cruciata, L. lateralis, Hotaria paroula, Pyrophorus plagiophthalamus, Lampyris moctiluca, Pyrocelia nayako or Photinus pennsylanvanica, where in the luciferase, an amino acid is different from a corresponding residue in wild-type and has increased thermostability. Also included are a nucleic acid which encodes the thermostable luciferase, a vector comprising the nucleic acid, a cell transformed with the vector, a plant comprising the cell, producing the thermostable luciferase and a kit comprising the thermostable luciferase. In thermostable luciferase is useful in any bioluminescent assay which utilizes luciferase/luciferin reaction as signaling mode. The present sequence is probably a mutagenic reaction as signaling mode. The present sequence is probably a mutagenic
                                                                                                                                                       PCR primer used to construct a DNA encoding a mutant luciferase Photinus pyralis, however it is displayed in figure 8, a figure referred to anywhere in the specification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Thermostable firefly luciferase mutant-associated primer SAC1-ANTI/6372.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADQ88659;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADQ88659 standard;
                                                                                                                             Sequence 23 BP; 2 A; 8 C; 12 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                            The invention relates to a luciferase (thermostable mutant) having 60%
                                                                                                                                                                                                                                                                                                                                                                                                                            Disclosure; Fig 8; 40pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                           New luciferase enzyme having mutant form of the wild-type
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Murray JAH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           23-JAN-2004; 2004AU-00200277.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         23-JAN-2004; 2004AU-00200277.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          23-SEP-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2004-526119/51.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Squirrell DJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           19-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (MINA ) UK SEC FOR DEFENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          luciferin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          luciferase; thermostable mutant;
                              3832 CCCCGGTCAGCTCCCAGGCCCCG 3854
23
                                                              18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CGCCGGTGAGCTCCCCGCCGCCG-23
 CGCCGGTGAGCTCCCCGCCGCCG 1
                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Tisi LC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DNA;
                                                                               78.3%;
                                                                                               0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            White PJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         23
                                                              0
                                                                                                                                                                                                                                                                                                                                                                                                                                                             increased thermostability and which enzyme, useful for bioluminescent as
                                                                               Score 15; DB 1;
Pred. No. 1.1e+03;
                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ss; PCR; primer; bioluminescent assay;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Lowe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Price RL,
                                                                ა
•
                                                                                               Length 23;
                                                                Indels
                                                                                                                                                                                               luciferase from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Murphy MJ
                                                              0;
                                                                Gaps
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RESULT 1332
AD030543/c
ID 3D030544
XX AD03054
AC AD0305
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                           (GPCRS) and nucleic acids encoding them. The invention also relates to CC sequences at least 90% identical to the GPCR proteins and nucleic acids of the invention; methods of treating, preventing or diagnosing diseases CC associated with GPCRs of the invention; methods of screening for compounds useful in the treatment of GPCR-related diseases; a transgenic compounds useful in the treatment of GPCR-related diseases; a transgenic compounds useful in the treatment of GPCR-related diseases; a transgenic computation; a mouse comprising a GPCR gene of the invention; a mouse comprising a commutation in a GPCR transgene or in an endogenous GPCR gene; cells derived from the transgenic mice; kits comprising several mice, each of which has a mutation in a different GPCR gene of the invention; and kits comprising to the invention. The cross which hybridise to GPCR polynucleotides of the invention. The comprising a GPCR nucleic acids and vectors comprising a GPCR nucleic acid. The GPCR nucleic acids and proteins may be used in the diagnosis, treatment or prevention of a wide variety of disease including neurological disorders (e.g., Alzheimer's disease, depression, diabetic neuropathy, Parkinson's disease, or schizophrenia);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        joint disorder; metabolic disorder; nutritive disorder; cancer; kidney disorder; liver disorder; lung disorder; breast disorder; ovary disorder; uterus disorder; prostate disorder; testis disorder; skin disorder; stomach disorder; pancreas disorder; spleen disorder; thymus disorder; thyroid disorder; antiparkinsonian, antimanic; cytostatic; antiinflammatory; vasotropic; antiadiarrhoeic; antidiabetic; CNS; central nervous system; respiratory; antidiarrhoeic; antidiabetic; virucide; hepatotropic; antibacterial; antianaemic; antiseborrhoeic; dermatological; antiulcer; antithyroid; antiallergic; anorectic; immunosuppressive; nephrotropic; gene therapy; GPCR modulator; human; PGR117; reverse transcription-PCR; RT-PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Novel mammalian G protein coupled receptors, useful for identifying compounds that modulates diagnosing and treating disease condition associated with GPCR dysfunction e.g. autoimmune diseases, angina pectoris, Parkinson's disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 transgenic mouse; neurological disorder; adrenal gland disorder; colon disorder; intestinal disorder; cardiovascular disorder; muscular disorder; blood disorder; immune disorder; bone disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2004-390329/36.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaitanaris GA, Bergmann JE, Gragerov A, Hohmann J
Madisen L, Mcilwain KL, Pavlova MN, Vassilatis D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           09-SEP-2002; 2002US-0409303P.
09-APR-2003; 2003US-0461329P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human novel GPCR PGR17 RT-PCR primer, SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADO30543 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure; SEQ ID NO 1646; 542pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO2004040000-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       29-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to human and mouse G protein-coupled receptors
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (PRIM-) PRIMAL INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            protein-coupled
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1332
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2003WO-US028226
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        receptor; GPCR; drug screening;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          23
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disorders of

the adrenal gland;

disorders of the colon or

The present sequence is that of PCR primer D1SerB for the csrC gene AD076906 of Escherichia coli strain K-12. D1SerB was used with primer D1Check1 AD076916 in an example from the invention for the construction of a csrC mull mutant. CsrC interacts with the RNA-binding protein CsrA, and antagonises the regulatory effects of CsrA. The invention relates to the csrC gene and RNA, and methods of using these to modulate biofilm cformation. A claimed method of altering the metabolism or structural or functional properties of a bacterial cell comprises altering the genetic expression of csrC may be a change in glycogen biosynthesis or gluconeogenesis. A claimed method of reducing biofilm-formation involves decreases csrC transcription in a biofilm-forming cell. A claimed method of inhibiting motility of biofilm-producing bacteria comprises increasing csrC expression. A claimed method of

Example; SEQ ID NO 11; 57pp; English.

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ADQ76915/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     syndrome); cardiovascular disorders (e.g., angina, cardiac arrhythmia or myocardial infarction); muscular disorders; blood disorders (e.g., anaemia or leukaemia); immune disorders (e.g., autoimmune disorders or AIDS); bone and joint disorders (e.g., osteoarthritis, rheumatoid arthritis, gout or osteoporosis); metabolic or nutritive disorders (e.g., obesity, enzyme deficiency-related diseases or vitamin deficiency-related diseases); and disorders of the kidney, liver, lung, breast, ovary, uterus, prostate, testis, skin, stomach, pancreas, spleen, thymus and thyroid (e.g., cancers). The present sequence represents a PCR primer used in the isolation of cDNA encoding the novel human GPCR PGR17. Note: The fill sequence data for this patent did not form part of the printed specification; those sequences not shown were obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                  CsrC polynucleotide, used in reducing infection by biofilm producing bacter:
                                                                                                                                                                                                                                                                                Wang
                                                                                                                                                                                                                                                       WPI; 2004-481158/46.
                                                                                                                                                                                                                                                                                                                               20-DEC-2002; 2002US-0434779P
                                                                                                                                                                                                                                                                                                                                                       22-DEC-2003; 2003CA-02450504
                                                                                                                                                                                                                                                                                                                                                                                   26-MAY-2004.
                                                                                                                                                                                                                                                                                                                                                                                                            CA2450504-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                     Escherichia coli.
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Biofilm; infection; CsrC; antibacterial; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Escherichia coli csrC gene PCR primer D1SerB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               09-SEP-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADQ76915
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADQ76915 standard; DNA; 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 23
                                                                                                                                                                                                                                                                                                        (KANE-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1619 GAAGGAATATGTTTTTGCTGACT 1641
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Crohn's disease, diarrhoea,
                                                                                                                                                                                                                                                                                                         KANE BIOTECH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                Weilbacher T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GAAGGCGAATGTGTTTGGTGACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP; 7 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9 C;
                                                                                                                                                                                                                producing
                                                                                                                                                                                                                                                                                 Romeo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 15; DB 1;
Pred. No. 1.1e+0;
                                                                                                                                                                                                                                                                           Ä,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 v
                                                                                                                                                                                                                  bacteria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ŧ;
                                                                                                                                                                                                                                                                                 Suzuki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           food poisoning or irritable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
                                                                                                                                                                                                                  the symptoms of a bacterial ia in a mammalian patient.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ģ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1.1e+03;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 23,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
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RESULT 1330
ADO15932
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C vector comprising a nucleic acid encoding the compound cited above, a const cell comprising the nucleic acid mentioned above, an oligonucleotide const cell comprising the nucleic acid mentioned above, an oligonucleotide consisting essentially of RNA or DNA of about 8-50 nucleotides configured consisting essentially of RNA or DNA of about 8-50 nucleotides configured consisting essentially of RNA or DNA of about 8-50 nucleotides configured consisting esquences that enable the formation of a hairpin configured composition for silencing a gene (comprising composition and method are useful for gene silencing purposes. RNA (e.g. composition and method are useful for gene silencing the program. The configured configured configured configured configured configured configured composition. The composition configured confi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to a compound for silencing a gene comprising a single-stranded nucleic acid molecule having a 3' end, a 5' end and a targeting region positioned between the 3' end and the 5' end, where the targeting region comprises a sequence targeted to a target region in the gene, and the 3' end and the 5' end each comprise a sequence that enables the formation of a hairpin structure. Also included are a recombinant
                                        Novel nucleic acid obtained from 4 synthesis-period of neuroblastoma cells useful for prognosing and determining progress stage of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4 synthesis-period of neuroblastoma related primer, SEQ ID 194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; 4 synthesis-period; neuroblastoma; stage 4S;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                29-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADO15932 standard; DNA; 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New sequence-specific oligonucleotide for silencing genes comprises a 3' end, a 5' end and a targeting region positioned between the 3' end and
                                                                                                                                                                        Nakagawara A,
                                                                                                                                                                                                                                 (HISM )
                                                                                                                                                                                                                                                                                                              30-OCT-2002; 2002JP-00316586.
                                                                                                                                                                                                                                                                                                                                                            30-OCT-2003; 2003WO-JP013932
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO2004039975-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                     13-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         incorporated into terminal hairpin-containing oligonucleotides.
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                                                                                                                          2004-390323/36
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                                                                                                                                                                                                                               HISAMITSU PHARM CO LTD. CHIBA PREFECTURE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GCTGAAGCTTGGTGACTGTCTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BP; 8 A; 7 C; 5 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
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                                                                                                                                                                              Ohira M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                entry)
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Pred. No. 1.1e+03;
0; Mismatches 5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     primer;
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RESULT 1331
AD044363/C
ID AD04436
XX AD04436
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XX 29-JUL-
XX IFN alg
KW Jene th
XX IFN alg
KW Jene th
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OS Synthet
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XX IFN Alg
XX O1-NOV-
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XX O1-NOV-
XX O1-NOV-
XX CADI-)
XX WPI; 20
PM Lohray
XX WPI; 20
PM WPI; 20
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Best Local Similarity 78.3%;
Matches 18; Conservative
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                                                      produce human IFN alpha 2b protein; and purifying recombinant human IFN alpha 2b protein from the culture medium. The method is useful in preparing and purifying recombinant human IFN alpha 2b protein for the manufacture of a medicament for treating viral diseases, e.g., hepatitis B, or cancer, e.g., bladder carcinoma. Sequences ADO44363-ADO44373 represent specific examples of primer pairs used in a RT-PCR reaction to isolate the human IFN alpha 2b gene of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IFN alpha 2b;
gene therapy;
                                                                                                                                                                                                                                                                                 Pichia pastoris containing a human IFN alpha 2b gene; culturing the recombinant Pichia pastoris in complex defined salt culture medium to
                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 4; SEQ ID NO 4; 56pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Preparing and purifying a recombinant human IFN alpha 2b by culturing the recombinant Pichia pastoris in complex/defined salt culture medium and purifying recombinant human IFN alpha 2b protein from the culture medium.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Lohray BB,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens.
Synthetic.
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                                                                                                                                                                                                                                                                                                                                           The invention relates to preparing and purifying a recombinant human interferon (IFN) alpha 2b. The method involves cultivating recombinant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   01-NOV-2002; 2002WO-IN000216.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-NOV-2002; 2002WO-IN000216.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human IFN alpha 2b gene isolating RT-PCR forward primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (CADI-) CADILA HEALTHCARE LTD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2004-376202/35.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          268
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQ ID NO 194; 455pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CCATCTCTTTCTTTCTTGCACTC 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Shah S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           interferon alpha 2b; recombinant; virucide; viral disease; cancer; RT-PCR; primer; ss.
      w
   Α;
      6 C; 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pandit H,
      <u>ი</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0,
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Pred. No. 1.1e+03;
0; Mismatches 5
      10
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         T;
         U; 0 Other
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                                                                                                                                                             hepatitis
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Query Match Best Local S Matches 18

Similarity

0.3%;

Score 15; DB 1; Pred. No. 1.1e+03 0; Mismatches

. 1.1e+03; 5;

Indels

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Gaps

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Length 23;

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RESULT 1327
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XX DG -MAY-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity
Matches 18; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention describes a method of identifying a human leukocyte antigen (HLA) genotype of a subject comprising; obtaining a sample comprising a template nucleic acid from the subject; amplifying the template nucleic acid with HLA allale-specific forward primers and HLA allale-specific reverse primers to form amplification products; hybridising the amplification products with an HLA locus-specific capture oligonucleotide; and detecting the detectable complexes to identify the HLA genotype of the subject. The present sequence represents one of 276 HLA locus-specific capture oligonucleotides of the invention.
     WO2004013346-A2
                                                          Unidentified
                                                                                                       single
                                                                                                                                                                                         SNP TSC0018292 probe,
                                                                                                                                                                                                                                                   06-MAY-2004
                                                                                                                                                                                                                                                                                                         ADJ46696;
                                                                                                                                                                                                                                                                                                                                                           ADJ46696 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 1; SEQ ID NO 189; 68pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Identifying an HLA genotype of a subject by hybridizing the amplification products with an HLA locus-specific capture oligonucleotide and detecting the detectable complexes to identify the HLA genotype of the subject.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2004-068584/07.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BP; 4 A;
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                                                                                                                                                                                                                                                 (first entry)
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                                                                                                                                      reaction;
                                                                                                             polymorphism;
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                                                                                                          genotyping; screening; scrapie;
hism; SNP; probe; ss.
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Pred. No. 1.1e
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ADM10656/c
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           method uses amplification primers which have 5' tags to incorporate into amplicons, variant nucleotides from target nucleic acids at known ratios with or without sequences surrounding the variant nucleotides of interest. The method is useful for genotyping or for performing primer extension reactions, for screening animals for susceptibility to a disease or disorder (e.g. scrapie), or for breeding scrapie-resistant sheep. The sequences of ADJ46653 and ADJ46717 flank a S (c/g) single nucleotide polymorphism (SNP) and were used to illustrate the method of threating primers ADJ46686-ADJ46691 and probes ADJ46692-
                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Performing a primer extension reaction, useful for e.g. genotyping, comprises employing amplification primers having 5' tags to incorporate into amplicons, variant nucleotides from target nucleic acids at known
                                           Koehn RK,
                                                                                                                                                                                            18-OCT-2002; 2002US-00273678
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  RNA interference; gene silencing; MMP9; ds; hairpin; siRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Multiple cloning
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20-DEC-2002;
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                                                                                       ) KOEHN R K.
) RUFFNER D E.
) PRAKASH R K.
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WPI; 2004-340007/31

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RESULT 1325
ADF88693/c
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Best Local S
Matches 18
This invention relates to a novel method for assessing if administration of imatinib would be effective against disease by assaying the expression of genes selected from a set of 77 genes. The 77 genes include HNI, AKRIC3, QARS, KIAA1105, KIAA0668, The movel method is useful for assessing if administration of imatinib would be effective against diseases such as chronic myeloid leukaemia. Twelve samples of poly A+RNA from healthy tissues were used to prepare cDNA. Oligo dT
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                                                                                                                                                                                                                                                                                                                                                                                                                                  Nakamura
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 1;
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                                                                                                                                                                                                                                                                                                                     effective
                                                                                                                                                                                                                                                                                                                     against
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23

TACTTCTGGCGCTTCCTGTCCAG

Local Similarity

Conservative

<u>,</u>

Mismatches

Indels

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Gaps

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1.1e+03;

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ADL18345/c
Query Match
Best Local S
Matches 18
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Best Local Similarity
Matches 18; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         primers and superscript II reverse transcriptase were used to reverse transcribe the RNA and then PCR used to amplify 200-1100bp fragments. These were separated by agarose gel electrophoresis and spotted onto glass slides. Five different slides, each with 4608 cDNAs were prepared. The primers used to identify the 77 genes were of sequences 1-154, the odd numbers being the forward primers and the even numbers the reverse odd numbers being the forward primers and the even numbers the reverse
                                                                                                      This invention relates to novel proteins concerned with reproductive organ formation of fish. Specifically, it refers to proteins that are involved in the formation of fish external genitalia and how toxic chemical substances affect these proteins, and accordingly the association with reproductive abnormalities. The present invention provides a kit to evaluate environmental polition, which uses methods that assess the toxicity of chemicals, for example endocrine disrupters, on the expression of such proteins involved in fish reproduction. This oligonucleotide sequence is a PCR primer given in an exemplification of
                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gambusia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          weston mosquitofish; reproductive organ formation; external genitalia; environmental pollution; endocrine disrupter; PCR; ss; primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GSP-F1 PCR primer to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          06-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADL18345;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               primers.
                                                                                                                                                                                                                                                                                                   e.g., endocrine
                                                                                                                                                                                                                                                                                                                                                                   WPI; 2004-085210/09.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                28-OCT-2002; 2002JP-00312914.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               08-JAN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               JP2004000124-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              novel method of
                                                                                                                                                                                                                                                                     Example 6; SEQ ID NO 34; 80pp;
                                                                                                                                                                                                                                                                                                                       environmental
                                                                                                                                                                                                                                                                                                                                                                                                                                  19-APR-2002; 2002JP-00118237.
                                                                                                                                                                                                                                                                                                                                                                                                   (KUMA-) KUMAMOTO KOTAI KENKYUSHO
                                                                                            invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1966 GGAACATCCGCATCGTGGTGCTG 1988
                                                                                                                                                                                                                                                                                                                  reproductive-organ formation protein useful for evaluating onmental pollution or evaluating toxicity of substance to be tested
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     23
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              affinis.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               This polynucleotide sequence represents a primer used in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GGAACATTCTCATGGAGGTACTG 1
                                                             BP;
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                                                                                                                                                                                                                                                                                                      disruptors.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                the invention.
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              0.3%;
                                                             5 C; 8 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         amplify weston mosquitofish DNA SeqID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 15; DB Pred. No. 1.1e.
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              Score 15;
Pred. No.
                                                             2 T;
                                                                                                                                                                                                                                                                  Japanese.
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                                                              0
U;
                                 DB 1;
                                                                0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5;
                                 Length
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                                 23
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RESULT 1323
ADG64668/c
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Best Local
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06-JUN-2002;
29-AUG-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RNA interference; short interfering nucleic acid; sina; short interfering RNA; siRNA; double-stranded RNA; micr short hairpin RNA; shRNA; expression modulation; gene t
                                                 New short interfering nucleic acid, useful e.g. for treatment diagnosis of schizophrenia, downregulates expression of the {\tt G7}
Example 3;
                                                                                                                                       WPI; 2003-712607/67
                                                                                                                                                                                                                                                                                                                                                     09-SEP-2002;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20-FEB-2002;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  schizophrenia; human; G72; target sequence;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    short hairpin RNA; shRNA; expression modulation; gene therapy; drug screening; diagnosis; therapeutic target identification;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human G72 siNA target oligonucleotide SEQ ID NO:114.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11-MAR-2004
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                                                                                                                                                                                                                                         (RIBO-) RIBOZYME PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           pharmacogenomics; gene function analysis; gene mapping;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADG64668 standard;
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SEQ ID NO 114; 139pp; English
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                                                                                                                                                                                                                                                                                                                         2002US-0408378P.
2002US-0409293P.
2002US-0431105P.
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2002US-0386782P.
2002US-0406784P.
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                                                                                                                                                                                                                                                                                                   2003US-0440129P
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                                                                                                                                                                                       Beigelman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       mRNA; 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    60.9%;
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                                                                                                                                                                                         Haeberli
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 15; I
Pred. No. 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1;
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3;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            micro-RNA; miRNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              neuroleptic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0;
                                                                                and
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The present invention describes a method (M1) for determining a toxicological response to an agent, which comprises comparing the expression profile of one or more human toxic response genes to

Claim 1; Page 330; 455pp; English

Determining a toxicological response to an agent, useful for screening drugs, comprises comparing the expression profile of one or more human toxic response genes to a reference gene expression profile indicative

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CC oligonucleotide. Specifically, the siNAs include short interfering RNA
CC (siRNA). The siNAs can be unmodified or chemically modified, can contain
CC (shRNA). The siNAs can be unmodified or chemically modified, can contain
CC (shRNA). The siNAs can be chemically synthesised, expressed from a
CC deoxyribonucleotides, and can be chemically synthesised, expressed from a
CC for in a contain vivo delivery of siNA; conjugates and/or complexes
CC for siNA; and vectors that express siNA. The siNAs are used to modulate
CC expression of the G72 gene in cells, tissue explants or organisms (e.g.,
CC by ex vivo gene therapy), or in grafts and transplants for the treatment
CC of a variety of conditions. The human G72 siNAs have neuroleptic activity
CC and can be used for treating schizophrenia. The siNAs are also useful for
CC drug screening, diagnosis, therapeutic target identification and
CC validation, genetic engineering, pharmacogenomics, studying gene
CC function, and gene mapping (e.g., of single nucleotide polymorphisms).
CC The present sequence represents a human G72 transcript target sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local
                                                                                                                                                                                                                            Neft RE,
Alen P;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to short interfering nucleic acids (siNA) which downregulate expression of the human G72 gene by RNA interference. The siNAs may or may not comprise ribonucleotides and may be double or single stranded. They further comprise sense and antisense regions, or alternatively are assembled from a sense oligonucleotide and an antisense oligonucleotide. Specifically, the siNAs include short interfering RNA
                                                                                                                                                                                       WPI; 2003-268322/26.
                                                                                                                                                                                                                                                                                                                                               16-AUG-2002; 2002WO-US026514.
                                                                                                                                                                                                                                                                                                                                                                                   27-FEB-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Toxicologically relevant gene; toxicological response; PCR primer; 88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             14-MAY-2003
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                                                                                                                                                                                                                                                                            (PHAS-)
                                                                                                                                                                                                                                                                                                              16-AUG-2001; 2001US-0313080P
                                                                                                                                                                                                                                                                                                                                                                                                                   WO2003016500-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Toxicologically relevant human PCR primer #1243.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABZ84084 standard; DNA; 23 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     66 ATGCCTGCTAGGCCATGCTTCTT 88
                                                                                                                                                                                                                                                                            PHASE-1 MOLECULAR TOXICOLOGY INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
                                                                                                                                                                                                                                          Dunn RT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                          Adkins K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0.3%;
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                                                                                                                                                                                                                                          Pickett GG,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
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                                                                                                                                                                                                                                          Kier LD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 23;
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RESULT 1321
ADE13571/c
ID ADE1357
XX ADE1357
AC ADE1357
XX ADE1357
AC ADE1357
AC ADE1357
AC ADE1357
XX ELA Cla
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XX BF; pri
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to regulating a gammadelta T-cell mediated immune CC response in a mammal and involves administering to the mammal a soluble gammadelta T cell receptor (TCR). The method is useful for treating CC gammadelta T cell receptor (TCR). The method is useful for treating CC e.g. Crohn's disease, ischaemic colitis, irritable bowel disease, and CC colon cancer; a lung condition associated with inflammation such as CC airway hyperresposiveness, pneumonia, tuberculosis, and a primary or CC metastatic lung tumour; a skin condition associated with inflammation or CC useration, and a skin cancer; or a condition associated with inflammation or laceration, and a skin cancer; or a condition associated with concert of accertaion, and a skin cancer; or a condition associated with concert accertaion, and a skin cancer; or a condition associated with concertain or viral infection that involve the epithelial mucosal lining, CC bacterial or viral infection that involve the epithelial mucosal lining, CC sequences ACF35969-978 represent PCR primers used to amplify and alter the deltars sclibble TCR primers used to amplify and alter
                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 23
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          reproductive tract, compris
gammadelta T cell receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Regulating a gammadelta T-cell mediated immune response in a mammal useful for treating inflammation in intestine, skin, lungs or reproductive tract, comprises administering to the mammal a soluble
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                O'brien RL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   10-JAN-2003; 2003WO-US000728
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     24-JUL-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO2003060097-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      T cell receptor; TCR; gastrointestinal; antiinflammatory; cytostatic; tuberculostatic; dermatological; antibacterial; virucide; gynaecological; cell therapy; PCR; primer; ss.
                     04-SEP-2003
                                                     US2003165884-A1
                                                                                                                                                      HLA class II allele specific primer #21
                                                                                                                                                                                                                          ADE13571;
                                                                                                                                                                                                                                                        ADE13571 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   10-JAN-2002;
                                                                                                                                                                                        29-JAN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (NAJE-) NAT JEWISH MEDICAL & RES CENT.
                                                                                                                                                                                                                                                                                                                                                                                                                             Local Similarity
                                                                                                                     primer;
                                                                                                                                                                                                                                                                                                                                                                             3342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  delta8 soluble TCR cDNAs
                                                                                     sapiens
                                                                                                                                                                                                                                                                                                                                             23
                                                                                                                                                                                                                                                                                                                                                                                                               18;
                                                                                                                                                                                                                                                                                                                                                                  GACCAGCCGCCCAAGGACTCCCC 3364
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP; 3 A; 5 C; 8 G; 7 T; 0 U; 0 Other;
                                                                                                                      PCR;
                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2002US-0347285P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Born WK,
                                                                                                                                                                                      (first
                                                                                                                     human; Human Leukocyte Antigen; HLA; genotype
                                                                                                                                                                                                                                                        DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                         0.3%;
78.3%;
                                                                                                                                                                                        entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Roark CL,
                                                                                                                                                                                                                                                          23
                                                                                                                                                                                                                                                          ΒP
                                                                                                                                                                                                                                                                                                                                                                                                             0,
                                                                                                                                                                                                                                                                                                                                                                                                                             Score 15;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          administering to
                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Aydintug MK;
                                                                                                                                                                                                                                                                                                                                                                                                        1.1e+03;
5;
                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 23;
                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                        ,0
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RESULT 1322
ADD95268
ID ADD9526
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Best Local Similarity
Matches 18; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to a method of identifying a class I or II Human Leukocyte Antigen (HLA) genotype of a subject using hybridisation and amplification assay. The method is used for determining the HLA genotype of a subject. The present sequence represents a HLA class II allele
                                                                                                                                                                                                             18-JAN-2002; 2002US-0350727P.
25-APR-2002; 2002US-0375785P.
                                                                                                                                                                                                                                                                                                                                                                     alanine 2; 3-aminomutase; enzyme; beta-alanine; alpha-alanine; 1; 3-propanediol; pantothenate; coenzyme A; CoA; cell; PCR primer; s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 11; SEQ ID NO 189; 66pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Identifying class I or II Human Leukocyte Antigen genotypes using hybridization and amplification assays.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2003-874916/81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Chow R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20-DEC-1999; 99US-0172768P.
20-DEC-2000; 2000US-00747391.
The present invention describes a cell, comprising alanine 2,3-aminomutase activity, and which produces beta-alanine from alpha-alanine. Also described: (1) a polypeptide comprising alanine 2,3-aminomutase
                                                                            New cell, comprising alanine 2,3-aminomutase activity, useful for producing beta-alanine from alpha-alanine, 1,3-propanediol, pantothenate, CoA, HP or 1,3-propanediol.
                                                                                                                                 WPI; 2003-646066/61.
                                                                                                                                                           Liao
                                                                                                                                                                                                                                                                              31-JUL-2003.
                                                                                                                                                                                                                                                                                                       WO2003062173-A2
                                                                                                                                                                                                                                                                                                                              Alcaligenes faecalis.
                                                                                                                                                                                                                                                                                                                                             Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                            Acaligenes faecalis M3A 3-HP dehydrogenase PCR primer SEQ ID NO:16
                                                                                                                                                                                                                                                                                                                                                                                                                                        29-JAN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADD95268;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADD95268 standard; DNA; 23 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           specific
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          25-APR-2002; 2002US-00133779
                                                  Example 10;
                                                                                                                                                                                                                                                   17-JAN-2003; 2003WO-US001635
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (STEM-)
                                                                                                                                                                                   (CRGI ) CARGILL INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3593 CCCTAAGCCTGCTCCCAGGAAGG 3615
                                                                                                                                                           臣
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STEMCYTE INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CACTTAGCCTGCTCCAAGAAACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 23 BP; 4 A; 4 C; 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Tonai R;
                                                                                                                                                           Gokarn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.3%;
nilarity 78.3%;
Conservative
                                                    SEQ ID NO 16; 119pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                           ₽Ŗ
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                                                                                                                                                           Gort SJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 15; DB 1; Le
Pred. No. 1.1e+03;
0; Mismatches 5;
                                                                                                                                                           Jessen
                                                    English
                                                                                                                                                           Ë,
                                                                                                                                                           Selifonova
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 23;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                       primer; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0
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RESULT 1319
ACD13859
BXXX
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                                                                                                                                                                                                                                                                                                                                                    CC (2) a polypeptide translated from (1); (3) a composition suitable for (2) a polypeptide translated from (1); (3) a composition suitable for CC detection of variant forms of alpha-foeteoprotein (APP) mRNA comprising a CC first nucleic acid primer of (1); (4) a polynucleotide primer comprising CC seven or more nucleotide residues capable of hybridising under stringent CC conditions to a nucleic acid encoding a variant form of APP mRNA, comprising CC detecting a variant form of APP mRNA, and reagents for CC person of hybridising to a variant form of APP mRNA, and reagents for CC person of hybridising to a variant form of APP mRNA, and reagents for CC progenitor cells comprising determining the mixture to thermo cycling, and CC determining the absence or presence of cDNA corresponding to a variant form of APP mRNA, in cells suspected of being haemopoietic stem or progenitor cells; (7) an isolated nucleic acid encoding a variant form of APP mRNA in cells suspected of being haemopoietic stem or progenitor cells; (7) an isolated nucleic acid encoding a variant form of APP has been replaced by a (1) or its fusion; (8) a probe CC capable of detecting the expression of a variant form of APP comprising a morphism or a variant form of APP comprising and consisting assentially of a teleast 10 contiguous nucleotides of (1); (9) a recombinant expression of a variant form of APP comprising a subpopulation of cells which encodes a variant form of APP comprising subpopulation of cells which encodes a variant form of APP comprising subpopulation of cells which encodes a variant form of APP comprising subpopulation of cells which encodes a variant form of APP comprising subpopulation of cells which encodes a variant form of APP comprises haemopoietic progenitors, on their progeny, capable of expression variant form of APP comprises haemopoietic progenitors, on their progeny, capable of expression are useful for identifying haemopoietic sem cells or comprises a human APP exon A cloning primer, which is used in the present in var
                                                                                                                                                                                                                                                                   Query Match
Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                    Sequence 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New isolated alpha-fetoprotein nucleic acid, useful for identifying hemopoietic stem cells or progenitors, cancers, markers for cell cloning and cloned cells, and for evaluating developmental stages in organs and
15-AUG-2003
                                      ACD13859
                                                                               ACD13859 standard; DNA; 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              or its homologue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example; Page 37; 42pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2003-371917/35.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (UYNC-) UNIV NORTH CAROLINA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     26-SEP-2001; 2001US-0324540P
                                                                                                                                                                                                                            1406
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     defined
                                                                                                                                                                                    23
                                                                                                                                                                                                                                                                                        Similarity
                                                                                                                                                                                                                          CACCTTTGAGGTGAAGGCAGAGT 1428
                                                                                                                                                                                      CACCTATGGGGTGAAAACAGAAT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Storms RW,
                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                  BP; 4 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              invention describes an isolated nucleic acid (I) comprising a sequence of 197 bp (see ADA00284), logue or complement. Also described: (1) a nucleic acid primer
(first entry)
                                                                                                                                                                                                                                                                                      0.3%;
                                                                                                                                                                                                                                                                                                                                                    6 C; 4 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Reid LM
                                                                                                                                                                                                                                                                     0; Mismatches
                                                                                                                                                                                                                                                                                      Score 15; DB 1;
Pred. No. 1.1e+03;
                                                                                                                                                                                                                                                                                                                                                    9 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                          Length 23;
                                                                                                                                                                                                                                                                   <u>,</u>
                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                primer
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                                                                                                                                RESULT 1320
ACF35974/c
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                                                                                                                                                                                                                                                                                                                                       promoter having at least one promoter that is modified to have altered cactivity in at least one gram-positive organism (e.g. Staphylococcus aureus or Entercocccus faecalis). The promoter is linked to at least one operator selected from xylo, teto, trpo, malo and lambda-clo, which are operator represses transcription from the fusion promoter. Also included are a vector comprising the isolated nucleic acid, a host cell comprising the nucleic acid. The fusion promoter is useful for identifying genes of involved in cellular proliferation, identifying a compound that reduces the activity or level of a gene product required for proliferation of a cell, inhibiting the activity or expression of a gene in an operon crequired for proliferation, manufacturing an antibiotic, identifying a compound that is required for proliferation of a prokaryotic cell, inhibiting a compound that inhibits the proliferation of a prokaryotic cell and regulating gene expression of a prokaryotic cell and regulating gene expression in bacteria. The present sequence is a PCR primer used in the construction of a fusion promoter of the
                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New isolated nucleic acid comprising a fusion promoter having at least one promoter that is modified to have altered activity in at least one gram-positive organism, useful for regulating gene expression in
                                                                                                                                                                                                                                                                                                                                       Seguence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to an isolated nucleic acid comprising a fusion promoter having at least one promoter that is modified to have altered
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2003-479541/45.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 06-SEP-2000; 2000US-0230335P.
27-DEC-2000; 2000US-0259434P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21-DEC-2001; 2001US-00032393
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Promoter; ss; gram positive bacteria; Staphylococcus aureus; primer; Enterococcus faecalis; operator; xylO; tetO; trpO; malO; lambda-clO; cellular proliferation; PCR.
                                               20-NOV-2003 (first entry)
                                                                                                                 ACF35974 standard; DNA; 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 12; Page 40; 142pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              bacteria.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Haselbeck R, Wall D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    06-FEB-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US2003027286-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cellular proliferation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PCR primer pXylT5F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (HASE/) HASELBECK R.
(WALL/) WALL D.
(GROS/) GROSS M.
                                                                                                                                                                                                                                                                                     Local
                                                                                                                                                                                                                           1925 CACCAGTGTGACTTTTAAAACAG 1947
                                                                                                                                                                                                    -
                                                                                                                                                                                                                                                                   l Similarity
18; Conserv
                                                                                                                                                                                                                                                                                                                                       23
                                                                                                                                                                                                                                                                 0.3%;
ilarity 78.3%;
Conservative
                                                                                                                                                                                                                                                                                                                                     BP; 9
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ω
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5
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                                                                                                                 ВÞ
                                                                                                                                                                                                                                                                     0
                                                                                                                                                                                                                                                                                                                                     G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             English.
                                                                                                                                                                                                                                                                                   Pred.
                                                                                                                                                                                                                                                                                     Score 15;
Pred. No.
                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                   23
                                                                                                                                                                                                                                                                                     1.1e+03;
                                                                                                                                                                                                                                                                                                    DB 1; Length 23;
                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                     0
                                                                                                                                                                                                                                                                     Gaps
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Vgamma1/Vdelta6.3 TCR cDNA amplifying primer Vgamma1L EcoRI+.

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CC (1) a vector comprising a promoter operably linked to the nucleic acid

CC encoding a polypeptide whose expression is inhibited by the antisense

CC nucleic acid; (2) a host cell containing the vector; (3) an isolated

CC polypeptide or its fragment whose expression is inhibited by the

CC antisense nucleic acid; (4) an antibody capable of specifically binding

CC polypeptide; (5) producing the polypeptide; (6) inhibiting cellular

CC proliferation or the activity of a gene in an operon required for

CC proliferation; (7) identifying a compound that influences the activity of

CC proliferation; (7) identifying a compound that influences the biological

CC proliferation or that has an activity against a biological pathway

CC required for proliferation, or that inhibits cellular proliferation; (8)

CC or a gene product or that compound that inhibits proliferation of an

CC compound's activity; (11) a culture comprising strains in which the gene

CC or a gene on which the test compound that inhibits proliferation of an

CC compound's activity; (11) a culture comprising strains in which the gene

CC product is overexpressed or underexpressed; (12) determining the extent

CC which each of the strains is present in a culture or collection of

CC strains; or (13) identifying the target of a compound that inhibits the

CC proliferation of an organism. The antisense nucleic acids are useful for

CC identifying proteins or screening for homologous nucleic acids required

CC from the discovery programs or for screening candidate molecules for rational
                                                                                                                                                                                                   ABX1351
                                                                                                                                                                                                                    RESULT 1317
                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                21-MAR-2001; 2001US-00815242.
06-SEP-2001; 2001US-00948993.
25-OCT-2001; 2001US-0342923P.
08-FEB-2002; 2002US-00072851.
06-MAR-2002; 2002US-0362699P.
                                                      S. aureus proliferation inhibitor PCR primer pXylT5F SEQ ID 15783
              Cellular proliferation; inhibitor; target; primer; PCR; 88
                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to an isolated nucleic acid comprising any one of the 6213 antisense sequences given in the specification where expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New antisense nucleic acids, useful for identifying proteins or screening for homologous nucleic acids required for cellular proliferation to isolate candidate molecules for rational drug discovery programs.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 2;
                                                                                                                                                                            ABX13511 standard; DNA; 23 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        drug discovery programs, or for screening homologous nucleic acids required for proliferation in cells other than S. aureus, S. typhi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (FLIT-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             pneumoniae or P. aeruginosa. The present sequence is a PCR amplify isolated DNA fragments which inhibited cell prolife pdated on 27-OCT-2003 to standardise OS field)
                                                                                                                                                                                                                                                                                                       1925 CACCAGTGTGACTTTTAAAACAG 1947
                                                                                                                                                                                                                                                                              _
                                                                                                                                                                                                                                                                                                                                                           l Similarity
18; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Zamudio C,
Trawick JD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Page 203; 1766pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                        BP; 9
                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                               (first
                                                                                                                                                                                                                                                                                                                                                                                                                                        2
                                                                                               entry)
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Carr GJ,
                                                                                                                                                                                                                                                                                                                                                                            0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                        3 C;
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                                                                                                                                                                                                                                                                                                                                                                                                                                        <u>ရှ</u>
                                                                                                                                                                                                                                                                                                                                                           0;
                                                                                                                                                                                                                                                                                                                                                         Score 15; DB 1;
Pred. No. 1.1e+03;
0; Mismatches 5
                                                                                                                                                                                                                                                                                                                                                                                                                                        6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Haselbeck R, Yamamoto R,
                                                                                                                                                                                                                                                                              23
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Forsyth :
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                                                                                                                                                                                                                                                                                                                                                                                                Length 23;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Zyskind JW;
Xu HH;
                                                                                                                                                                                                                                                                                                                                                           0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          typhimurium,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     primer used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            expression
                                                                                                                                                                                                                                                                                                                                                           Gaps
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which compounds inhibiting proliferation of an organism act. The method comprises obtaining a culture of strains overexpressing a different product for proliferation of the organism, contacting the culture with a compound to inhibit proliferation of strains that do not overexpress the product and identifying the product overexpressed in a strain that proliferated more rapidly. The method is useful in identifying the target of a compound which reduces the activity or level of gene products required for cellular proliferation. The method may also be used for identifying the therapeutic compounds that act on the novel targets. This sequence represents a PCR primer used to amplify nucleic acid sequences between the compounds of the province of the sequences.
Sequence 23 BP; 9 A; 3 C; 5 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                     Identifying the target of a compound which inhibits cellular proliferation, comprises contacting a culture of strains that overexpress or underexpress a gene product with the above compound, and identifying
                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2003-093128/08.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Carr GJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           09-FEB-2001; 2001US-0267636P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              08-FEB-2002; 2002WO-US003987
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO200286097-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Staphylococcus aureus.
                                                                                                                                                                                                                                                                  Example 2; Page 136;
                                                                                                                                                                                                                                                                                                      the gene product.
                                                                                                                                                                                                                                                                                                                                                                                                                                    Boone
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Zyskind
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (ELIT-) ELITRA PHARM INC.
                                                                                                                                                                                                                                  invention
                                                                                                                                                                                                                                                                                                                                                                                                                            Ç
                               inhibit the growth of Staphylococcus aureus
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ž,
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Xu HH,
W, Wall
                                                                                                                                                                                                                                                                                                                                                                                                                                  Виввеу Н;
                                                                                                                                                                                                              describes a novel method for identifying gene inhibiting proliferation of an organism act.
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Poulkes GJ, Zamudio C, H
D, Trawick JD, Yamamoto
                                                                                                                                                                                                                                                                  640pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Haselbeck R,
to RT, Roemer
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Roemer T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ohlsen KL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Jiang
                                                                                                                                                                                                              The method
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9

Ş 맑 Matches Query Match Best Local 1925 CACCAGTGTGACTTTTAAAACAG 1947 18; Similarity CAGCAGTCTGAGTTATAAAATAG 23 Conservative 0.3%; 0; Score 15; Pred. No. Mismatches DB 1; .1e+03; <u>ب</u> Length 23; Indels 0 Gaps 0

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ADA00327/c
ID ADA0032
XX ADA0032
XX ADA0032
XX DF Human a
XX Human a
XX human;
KW haemopo
KW haemopo
KW haemopo
KW hybridi
XX Synthet
OS Homo sa
XX
PN WO20030
XX
PF 26-SEP-
XX
                                                                                                                                                                   06-NOV-2003
                                                                                                                                               Human alpha-foetoprotein exon A cloning primer
                                                                                                                                                                                      ADA00327;
                                                                                                                                                                                                        ADA00327 standard;
                                                                                                                                                                   (first entry)
                                                                                                                                                                                                        DNA; 23
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human; detection; variant; alpha-foetoprotein; APP; haemopoietic stem cell; haematopoietic stem cell; haematopoietic progenitor haemopoietic progenitor cell; haematopoietic progenitor hybridisation; cancer; cell cloning; developmental; PCR WO2003027253-A2 Synthetic. cell; primer; 88

g-ex-

03-APR-2003

26-SEP-2002; 2002WO-US030520

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RESULT 1315
ACC83049/c
ID ACC8304
XX ACC8304
AC ACC8304
XX 27-AUG-
XX 27-AUG-
XX XX 27-AUG-
XX XX
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                                                                                                                                                                                                                                                                                      ঠ
                                                                                                                                                                                                                                                                                                                                                                                                                The present invention describes human adenylate cyclase type IV (I). (C) has hypotensive, osteopathic, antianginal, cardiant, vasotropic, antiatherosclerotic, vulnerary, cerebroprotective, antiulcer, antiatherosclerotic, vulnerary, cerebroprotective, antiulcer, antiatherosclerotic, antiallergic, antimigratine, nootropic, tranquilliser, antiasthmatic, antimerary, can be used in the treatment of an adenylate cyclase type IV dysfunction related disease, in particular hypertension, argina pectoris, myocardial infarction, ceretensis, atterosclerosis, angina pectoris, myocardial infarction, creatensis, atherosclerosis, a disease characterised by excessive smooth creatensis, atherosclerosis, a disease characterised by excessive smooth creatensis, atherosclerosis, a disease characterised by excessive smooth creatensis, atheroscopic, ischaemia, ulcer, asthma, allergy, benign compostatic hypertrophy, migraine, vomiting, psychotic, neurological disorder, including anxiety, schizophrenia, manic depression, depression, delirium, dementia, severe mental retardation and degenerative diseases. The present sequence represents a PCR primer used in comparing the expression of adenylyl cyclases in human bronchial endothelial cells,
                                                                                                                                                                                                                                                                                                                                  Matches
                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; adenylate cyclase type IV; enzyme; hypotensive; osteopathic; antianginal; cardiant; vasocropic; antianterosclerotic; vulnerary; cerebroprotective; antiulcer; antiasthmatic; antiallergic; antimigraine; nootropic; tranquilliser; neuroleptic; antimanic; antidepressant; stroke; antiemetic; gene therapy; hypertension; urinary retention; osteoporosis; angina pectoris; myocardial infarction; restenosis; atherosclerosis; aneurysm; wound healing; ischaemia; ulcer; asthma; allergy; migraine; vomiting; benign prostatic hypertrophy; psychotic; neurological disorder; degenerative disease; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Novel human adenylate cyclase type IV protein, regulators of which useful for treating and preventing atherosclerosis, hypertension, osteoporosis, ulcer, asthma, allergy, psychotic and neurological
                       Emr1 PuRs fragment, Emr1-A
                                                             27-AUG-2003 (first entry)
                                                                                                                                               ACC83049 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 3; Page 55; 95pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2002-507943/54.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Floeckner J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       18-OCT-2000; 2000US-0241306P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17-OCT-2001; 2001WO-EP012002.
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                                                                                                                                                                                                                                                                                        1666 AGCTCCTGCAGCAGATGAAGAAC 1688
                                                                                                                                                                                                                                                                                                                                                                                                                                                        18
                                                                                                                                                                                                                                                                                                                                18;
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                                                                                                                                                                                                                                                                                                                                                   Similarity
                                                                                                                                                                                                                                                                                                                                                                                                              23
                                                                                                                                                                                                                                                                                                                                                                                                                                                  used in an example from the present invention
                                                                                                                                                                                                                                                  AGCTGATGGACCAGATGAAGTAC 23
                                                                                                                                                                                                                                                                                                                                                                                                              BP; 8 A;
                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   గ్గ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Liu N;
                                                                                                                                                                                                                                                                                                                                                 0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                              4 C; 7 G; 4 T; 0 U; 0 Other;
                                                                                                                                             23
                                                                                                                                               ΒP
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                                                                                                                                                                                                                                                                                                                              Score 15; DB 1; Le
Pred. No. 1.1e+03;
D; Mismatches 5;
                                                                                                                                                                                                                                                                                                                                                                    Length 23
                                                                                                                                                                                                                                                                                                                                Indels
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5
                                                                                                  Query Match
Best Local S
Matches 18
                                                                                                                         The invention relates to an expression cassette which comprises a control sequence having a PuRs (purine-rich sequence) fragment of an Emri promoter which fragment has enhancer activity and a promoter; and a heterologous protein coding sequence operably linked to the control sequence. The cassette or vector is useful in treating or in manufacturing a medicament for treating skin diseases in humans or animals by gene therapy. The skin diseases includes psoriasis, allergic dermatitis, eczema, cutaneous leishmaniasis, melanoma or other skin cancer. The cassette or vector may also be used in modulating an immune response or in manufacturing a vaccine for genetic vaccination. The present sequence is Emrl PuRs fragment. This fragment is used in the exemplification of the invention
                                                                                                Sequence 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Skin disease; gene therapy; psoriasis; allergic dermatitis; skin cancer; eczema; cutaneous leishmaniasis; melanoma; purine-rich sequence; PuRs; vaccine; Emrl; ds.
                                                                                                                                                                                                                                                                                                                                    Example 9; Page 34; 56pp; English
                                                                                                                                                                                                                                                                                                                                                                              New expression cassette for preventing or treating skin diseases in humans or animals, e.g. psoriasis or skin cancer, comprises a controsequence and a heterologous protein coding sequence operably linked
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Greaves DR, Mcknight AJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       30-OCT-2001;
22-APR-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      29-OCT-2002; 2002WO-GB004849
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     08-MAY-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2003-441360/41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (ISIS-)
                                                                                                                                                                                                                                                                                                                                                                   control
        270
                                     l Similarity
18; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ISIS INNOVATION LTD
        CTCTCTCTCTTTCTCTCTCTCTC
                                                                                                B₽;
                                                                                                                                                                                                                                                                                                                                                                sequence.
                                      Conservative
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2002GB-00009138
                                                                                                11 A; 0 C; 12 G; 0 T;
                                                  0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gordon
                        Pred. No. _.
0; Mismatches
                                                     Score 15;
Pred. No.
      292
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                                                                                                  0
                                                     1.1e+03;
                                                                                                U; 0 Other;
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                                                                   Length. 23;
                                      Indels
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                                      Gaps
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RESULT 1316
                                                                                                                                                     ACA54534
21-MAR-2002; 2002WO-US009107
               03-OCT-2002
                                               Staphylococcus
                                                                                     S. aureus PCR primer #1.
                                                                                                                             ACA54534;
                               WO200277183-A2
                                                              drug design;
                                                                     Antisense; ss; prokaryotic
                                                                                                      27-OCT-2003
19-JUN-2003
                                                                                                                                            ACA54534 standard; DNA; 23 BP
                                                              primer; PCR
                                                                                                      (revised)
(first en
                                                                                                    entry)
                                                                     essential gene; cell proliferation;
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23

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                      CC recombination, of a promoter replacement fragment with a heterologous CC promoter, so that expression of the second allele is regulated by the CC promoter. (M1) is useful for constructing a strain of diploid fungal CC cells in which both alleles of a gene are modified. The diploid fungal CC cells having both alleles modified are useful for identifying a gene that CC contributes to the virulence and/or pathogenicity of a fungus, a gene that contributes to the resistance of a diploid fungus to an antifungal agent that inhibits the growth of a diploid fungus and for identifying a therapeutic agent for treatment of a mammalian CC disease. (M1) is useful for identifying a compound which modulates the activity of a gene product, preferably enzymatic activity, carbon CC compound catabolism, biosynthetic, transporter, transcriptional, CC translational, signal transduction, DNA replication and cell division activity. The method is useful for identifying a compound having the cativity to inhibit growth or proliferation of C. albicans cells and for treating infection by C. albicans. The present sequence is that of a PCR primer used in the method of the invention. Note: The sequence data for this patent is not represented in the printed specification but is based on sequence information supplied to Derwent by the European Patent Office
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 1312
ABZ29913/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Fungus; yeast; tetracyclin; promoter; GRACE strain; biosynthesis; signal transduction; DNA replication; cell division; growth; proliferation; Candida albicans; fungicide; antifungal; PCR; primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ABZ29913;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABZ29913 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                  cells in which both alleles of a gene are modified, comprising modifying one allele by insertion or replacement by a cassette having an expressible selectable marker and modifying other allele by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Constructing strains for identifying gene products as effective targets for therapeutic intervention, by inactivating in the strain one allele of a gene and placing other allele of the gene under conditional expression.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            29-DEC-2000; 2000US-0259128P.
20-FEB-2001; 2001US-00792024.
22-AUG-2001; 2001US-0314050P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Candida albicans.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Candida albicans GRACE strain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        30-JAN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 36; SEQ ID NO 4064; 167pp + Sequence Listing; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Roemer T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11-JUL-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          26-DEC-2001; 2001WO-US049486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (ELIT-) ELITRA PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1925 CACCAGTGTGACTTTTAAAACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2002-566694/60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CAGCAGTCTGAGTTATAAAATAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Jiang B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              relates to constructing (M1) a strain of diploid fungal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Bussey H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       23
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5
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Query Match Best Local Similarity

0.3%;

Score 15; DB 1; Pred. No. 1.1e+03;

Length 23;

Human adenylyl cyclase PCR primer AC5-L SEQ ID NO:13.

29-AUG-2002 ABN89309;

(first entry)

0

Sequence

23

BP; 5 A;

3 C; 6 G; 9 T; 0 U; 0 Other;

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Matches
ABN89309
ID ABNE
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AC ABNE
XX
DT 29-A
XX
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                                                                                                        RESULT 1314
                                                                                                                                                                                                    Query Match
Best Local S
Matches 18
                                                                                                                                                                                                                                                                                The present invention relates to methods for detecting a cancerous colon cell involving detecting at least one differentially expressed gene such as those given in AAL41595-AAL41611. This is useful for diagnosing colon cancer, in rational drug and therapy design, and for identifying additional genes linked to the development or inhibition of development of colon cancer. Examples of colon cancer which can be detected include adenomatous polyp, colorectal carcinoma, high metastatic potential colon tumours and metastatic colon cancer. The present sequence is an antisense sequence directed at a colon cancer associated protein coding sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                               Detecting a cancerous colon cell, useful for diagnosing colon cancer and for rational drug and therapy design, comprises detecting at least one differentially expressed gene product.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        metastatic colon cancer; antisense; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; colon cancer; cytostatic; drug colorectal carcinoma; high metastatic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human colon cancer related antisense oligo SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         19-APR-2002
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                                                                                                                                                                                                                                                      Sequence 23
                                                                                                                                                                                                                                                                                                                                                                                                                       Example 8; Page 66; 135pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO200196523-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens
                                                                              ABN89309 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2002-164362/21.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Kennedy GC, Kang S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       15-JUN-2000; 2000US-0211835P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                15-JUN-2001; 2001WO-US019313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (CHIR ) CHIRON CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1721 CACCATCTTCATCGGCACCTGGA 1743
                                                                                                                                                                          4286 GCACACCAGACGGCCAACAAACA 4308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      18;
                                                                                                                                                 _
                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CATCATCATCATCAGCAAATGGA 1
                                                                                                                                                 GCTCACCATCCGGGCACCAAGCA 23
                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                        BP; 6 A; 10 C; 5 G; 2 T; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                DNA;
                                                                                                                                                                                                                0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Reinhard
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      <u>.</u>.
                                                                                                                                                                                                                  Score 15;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ç
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
                                                                                                                                                                                                      Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Jefferson AB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 uesign; adenomatous polyp;
                                                                                                                                                                                                                                                           U; 0 Other;
                                                                                                                                                                                                                                DB 1;
                                                                                                                                                                                                                     .le+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5
                                                                                                                                                                                                                              Length 23;
                                                                                                                                                                                                      Indels
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                                                                                                                                                                                                                                                                                                 is an antisense
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 1310
                                              Matches 18;
                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                         The present invention is related to a Lactococcus lactis nucleotide sequence (ABA90521) and related proteins (ABB53300-ABB55621). The nucleic acid sequence is useful in the detection and/or amplification of nucleic acid sequence, particularly to identify Lactococcus lactis or related species. The proteins of the invention are useful for the biosynthesis or biodegradation of a composition of interest. The invention helps research in lactic bacteria, particularly useful in the production of yogurt and cheese. The present sequence is an oligonucleotide used in an example from the invention. Note: The sequence data for this patent is based on equivalent patent WO200177334 (published 18-OCT-2001) which is available in electronic format directly from WIPO at the production of yogurt and sequence contains the patent would be contained to the patent with the patent would be patent in electronic format directly from WIPO at the patent would be contained by the patent with the patent with the patent would be contained by the patent with the patent 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (I) overcomes the problems associated with the current blue screen technology such as plasmid instability due to vector-driven transcription of the insert DNA. The system addresse this problem by eliminating promoter elements near cloning sites, and providing termination after selectable markers. ABQ74971 to ABQ75098 represent sequences used in the exemplification of the present invention
                                                                                                                                    Sequence 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 1; SEQ ID NO 2443; 2504pp; French.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New nucleotide sequence useful in the identification or Lactococcus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Bolotine A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11-APR-2000; 2000FR-00004630
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11-APR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              12-OCT-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Lactococcus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Biosynthesis; biodegradation; lactic bacterium; yogurt; cheese;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Lactococcus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  29-AUG-2003 (revised)
16-MAY-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ABA90641;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABA90641 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 23 BP; 2 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FR2807446-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (INRG ) INRA INST NAT RECH AGRONOMIQUE
                                                                 Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local
  1637 TGACTCCAAAAAGAGAGAAGGCT 1659
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2799 CAGGAAGGAGAAATGAAGAAGG 2821
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CAGTAAGCAGAAAATGACAAAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                related
                                                                                                                                    BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    lactis; IL1403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     lactis oligonucleotide #120 used in Long Range PCR
                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2000FR-00004630
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                species
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0.3%;
78.3%;
                                                              0.3%;
78.3%;
                                                                                                                                    5 C; 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5 C; 3 G; 13 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Þ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Renault P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ВÞ
                                         Score 15; DB
Pred. No. 1.1e
0; Mismatches
                                            0;
                                                                                                                                    G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
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Pred. No. 1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ehrlich SD,
                                                                                          DB 1;
                                                                   le+03;
                                              <u>ن</u>
                                                                                      Length 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5; Indels
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                                              Indels
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                                            0,
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                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                            0
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CC positioned so binding of a repressor to an operator represser and controlled to transcription from the fusion promoters, a method of identifying genes cinvolved in cellular proliferation or required for proliferation of a compound the proliferation of a prokaryotic cell using the vector, a method of identifying compounds that cinhibit the proliferation of a prokaryotic cell using the vector, a method of identifying a compound that reduces the activity or level of a compound identified by the methods, a method of inhibiting the vector, a compound identified by the methods, a method of inhibiting the activity or level of a compound identifying an antibiotic comprising using the vector or cell corexpression of a gene in an operon required for proliferation using the vector, manufacturing an antibiotic comprising using the vector or cell cardidentifying an include activity for regulating nucleic acid or completide expression, particularly for regulating gene expression in bacteria and for identifying proliferation required genes or molecules with potential antibiotic activity. The modified promoters are also custified by replacing endogenous promoters to coreate cells with specific confidentable genes. The present sequence is a PCR primer used to isolate proliferation affected genes from S. aureus which has been transformed with a vector commitiaing a fusion promoter sequence of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to an isolated nucleic acid comprising a fusion promoter comprising at least one promoter that is modified to have altered activity in at least one gram-positive organism, or comprising T5, CP25, P32, P59, P1P2 or PL linked to at least one operator consisting of xyl0, tet0, trp0, malo or lambdac10, where at least one operator is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Isolated nucleic acid comprises bacterial promoters modified to have altered activity in at least one gram-positive organism, e.g. Bacillus anthracis or Clostridium botulinum, useful for regulating gene express:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 12; Page 114; 246pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               uī
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Haselbeck R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              27-DEC-2000;
06-SEP-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             21-DEC-2001; 2001WO-US050250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    04-JUL-2002.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO200251982-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ss; promoter; gram positive bacteria; fusion promoter; T5; CP25; P32;
P59; P1P2; PL; xyl0; tet0; trp0; mal0; lambdac10; cellular proliferation;
antibiotic; PCR; primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           21-OCT-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ABK98608;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ABK98608 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2002-575374/61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (ELIT-) ELITRA PHARM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             aureus proliferation affected
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2000US-0259434P.
2001US-00948993.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Wall D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gross
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           genes PCR primer pxylT5F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       expression
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Query Match Best Local Sim Matches 18;

Similarity

78.3%;

Score 15; DB 1; Pred. No. 1.1e+03; 0; Mismatches 5

Length 23; Indels

0

Gaps

0

Conservative

Sequence

23 BP;

9 A;

3 C;

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G; 6 T; 0 U; 0 Other;

(ELIT-)

ELITRA PHARM INC

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 1308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       strains useful for identification and validation of gene products as targets for therapeutic agents, for creating a collection of identified essential genes, and screening assays for the discovery of new drugs. The invention provides the GRACE (gene replacement and conditional expression) method for the construction of mutant organisms referred to as GRACE strains of the organism. The invention can be applied to any organism, particularly a pathogenic fungus e.g. Candida albicans, Aspergillus fumigatus and Cryptococcus neoformans. The methods are useful to identify agents that may be used in the treatment of fungal infections. AAS2387-AAS23747 represent primers A #1-61 used as probes for identifying C. albicans GRACE strains
                                                                     Human cGMP-inhibited phosphodiesterase 17 and encoded polynucleotide, used in diagnosis and treatment of malignant tumors, hemopathy, human immunodeficiency virus infection, immunological diseases and
                                                                                                                                                                                                                                                                                    31-MAY-2001
                                                                                                                                                                                                                                                                                                                                            Homo
                                                                                                                                                                                                                                                                                                                                                                   HIV infection; immunolo haemostatic; virucide;
                                                                                                                                                                                                                                                                                                                                                                                                  cGMP-inhibited
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAH44843;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAH44843 standard; DNA; 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                   WPI; 2001-355899/37.
                                                                                                                                                               Mao Y,
                                                                                                                                                                                                                                                     20-NOV-2000; 2000WO-CN000451
                                                                                                                                                                                                                                                                                                               WO200138381-A1
                                                                                                                                                                                                                                                                                                                                                                                                                               PCR primer specific for cGMP-inhibited phosphodiesterase 17 cDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                               31-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The present invention relates to novel methods for constructing fungal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    potential
                           Example 3; Page 12; 31pp; Chinese
                                                                                                                                                                                                                         23-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Identifying genes essential to fungal metabolisms and identifying potential therapeutic agents that target these genes.
                                                           inflammation.
                                                                                                                                                                                           (BIOR-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1721 CACCATCTTCATCGGCACCTGGA 1743
                                                                                                                                                                                                                                                                                                                                           sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2001-489080/53.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               23
                                                                                                                                                               Xie Y;
                                                                                                                                                                                           BIOROAD GENE DEV LTD SHANGHAI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CATCATCATCATCAGCAAATGGA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  23
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Page 309; 324pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP; 5 A; 3 C; 6 G; 9 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                     phosphodiesterase 17; malignant tumour; haemopathy; ss;
immunological disease; inflammatory disorder; cytostatic;
irucide; immunomodulatory; antiinflammatory; PCR primer.
                                                                                                                                                                                                                         99CN-00124077
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ₽,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Boone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 agents that target these genes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ú
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 15;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Bussey H;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 23;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0,
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This invention relates to human cGMP-inhibited phosphodiesterase 17

+ 1 vector components are non-contiguous within the circular recombinant vector. The system comprises X + 1 vector, where = 1, 2, 3, 4, 5 or 6. Also described is a composition comprising X + 1 vector components configured for combining in the presence of X + 1 insert sequences to form a circular recombinant vector, where the X + 1 vector components are non-contiguous within the circular recombinant vector. (I), a composition and kits from the present invention are useful for cloning and sequencing insert nucleic acid sequences. In particular, they are useful for multiplex cloning, multiplex sequencing and fixed orientation cloning.

comprising at least two separate source nucleic acid molecules for supplying X + 1 vector components configured for combining in the presence of X + 1 insert sequences to form a circular vector, when

The present invention describes a system

(I) for cloning nucleic

where the

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RESULT 1309
ABQ75039/c
ID ABQ7503
XX ABQ7503
XX ABQ7503
XX D1 ABQ7503
XX Multipl
XX I6-NOV-
PR 15-NOV-
PR 15-N
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Multiplex cloning; cloning vector; vector component; multiplex sequencing; fixed orientation cloning; PCR
                                                                                                                                                                                                                                                                                                                                                                                                Example 10; Page 81; 133pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           cloning
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New system comprising at least two separate source nucleic acid molecules for supplying vector components combined to form a circular vector, useful for multiplex cloning, multiplex sequencing and fixed orientation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2002-619255/66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mead DA,
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15-NOV-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             standard; DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Godiska R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
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2001US-00001052.
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Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
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primer; ss.
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                                                                                                                                                             CC acids of determined algal, archaeal, bacterial, fungal and parasitical species with a combination of defined primer pairs. The method can be CC used for producing probes and/or primers for detecting one or more CC related microorganisms e.g. algae, archaea, bacteria, fungi and CC parasites, for universal detection and for specific and ubiquitous CC detection and identification of an algal, archaeal, bacterial, fungal and CC parasitical species, genus, family and group. A nucleic acid (I) obtained CC using the method of the invention can be used for the universal detection of any bacterium, fungus or parasite in a sample and for the detection of CC at least one antimicrobial agent resistance gene or at least one toxin CC detection and for identification of Streptococcus pneumoniae. (I) can be used to design a therapeutic agent which is effective against microbial species or genus or family or phylum or group which can be detected include Abiotrophia adiacens, Bordetella sp., Tenterbacteriance group. Excherichia coli
                                                                            Query Match
Best Local S
Matches 18
                                                                                                                                                                                               Corynebacterium sp.. Enterobacteriaceae group, Escherichia coli, Mycobacteriaceae family, Pseudomonads group, Streptococcus sp., Neisseria gonorrhoeae and Staphylococcus sp. Using DNA based tests provides faster results than substrate specificity tests as results can be determined in an hour and improved accuracy is also achieved. AAH00010 to AAH002304 represent nucleotide sequences and primers/probes which are given in the exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Species specific, genus specific; family specific; probe; detection; identification; algal; archaeal; bacterial; fungal; parasitical; microorganism; diagnosis; translation elongation factor Tu; toxin; translation elongation factor G; RecA recombinase; resistance; catalytic subunit of proton-translocating ATPase; antimicrobial; vaccine;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      nucleic acids of tuf, fus, atpD and/or recA genes from which probes and/or primers are derived. The method comprises amplifying the nucleic acids of determined algal, archaeal, bacterial, fungal and parasitical acids of determined algal, archaeal, bacterial, fungal and parasitical
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Nucleic acid sequences are used to generate universal probes and primers which can be used to identify and detect the presence of algal, archaeal, bacterial, fungal and parasitical species in a test sample.
                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention nucleic acids of tuf,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          28-SEP-1999; 99CA-02283458.
19-MAY-2000; 2000CA-02307010.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     aph(3')-IIa resistance gene detection nucleotide sequence SEQ ID NO:1393
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                                                                              . Similarity
18; Conserv
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  CAGTCCCTTCCCGCTTCAGTGAC
                                       CTGTTCTGTCCAGCTTCAGTGAC 4714
                                                                                                                                                             ВP;
                                                                              Conservative
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                                                                                                                                                           C; 4 G; 6 T; 0 U; 0
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                                                                            Pred. No. 1.1
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                                                                                                                  Score 15;
23
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                                                                      . 1.1e+03;
5;
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                                                                                                                                                             Other;
                                                                                                                    Length 23;
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RESULT 1307
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AC AAS2373
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Primer
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Gene id
KW Gene id
KW Gene re
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Gendida
OS Candida
OS Synthet
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WO20016
PN WO20016
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PF 20-FEB-
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Matches
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                                                                                                                         Gene identification; gene replacement and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Yu L,
          18-FEB-2000; 2000US-0183534P
                                                                                                                                                      Primer A #45 used as probe for identifying C. albicans GRACE strain.
                                                                                                                                                                                               AAS23731;
                                                                                                                                                                                                                    AAS23731 standard; DNA; 23
                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                       The present invention relates to coding sequences for human Charcot-
Leyden Crystal 2 (CLL2; see AAI65125 and AAI65132). The present seque:
is a PCR primer which was used in an example of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                    and application.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAI65123 standard; DNA; 23 BP
                              20-FEB-2001; 2001WO-US005551
                                                                                           Synthetic.
                                                                                                   Candida albicans
                                                                                                                                                                          04-DEC-2001
                                                                                                                                                                                                                                                                                                                                                                                                               Example 1; Page 10 (Disclosure); 26pp; Chinese
                                                                                                                                                                                                                                                                                                                                                                                                                                              Human charcot-leyden crystal 2,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2001-558363/63
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              27-OCT-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PCR primer; Charcot-Leyden Crystal 2;
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                                                                                                                                                                                                                                                                                                                       Local
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                                                                                                                                                                                                                                                                                        181 CGACCAGTTGCCAGGAAGGAGAG 203
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Fu Q,
                                                                                                                                                                                                                                                                     μ
                                                                                                                                                                                                                                                                                                            l Similarity
18; Conserv
                                                                                                                                                                                                                                                                                                                                                    23 BP;
                                                                                                                                                                                                                                                                      CGAAGAGCTGCCCAGAAGGAGAG
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                                                                                                                                                                                                                                                                                                            ilarity 78.3%;
Conservative
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                                                                                                                                                                                                                                                                                                                                                     A; 5 C; 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           entry)
                                                                                                                        essential gene; GRACE; conditional expression;
                                                                                                                                                                                                                                                                                                                                0.3%;
                                                                                                                                                                                                                    ВP
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Pred. No. 1.1e
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                               its code sequence
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                                                                                                                         pathogenic
; fungal inf
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                                                                                                                                                                                                                                                                                                                                Length 23
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                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                         infection; probe;
                                                                                                                                                                                                                                                                                                                                                                                                                                              preparation method
                                                                                                                                   fungus;
                                                                                                                                                                                                                                                                                                                                                                                   man Charcot-
present sequence
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88

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                                                                                                                                                                                                cc used to demonstrate Bi-PASA. In Bi-PASA, 2 outer primers (P and Q) and 2 cinner primers (A and B) are used. A and B are each specific for different calleles. P is complementary to the antisense strand of both alleles in a region upstream of the sequence difference (mismatch). Q is complementary to the sense strand of both alleles in a region downstream of the complementary crown the sense strand of both alleles in a region downstream of the mismatch. In heterozygotes, 3 segments are amplified: a segment of size Q resulting from 1 allele, another of size PB resulting from the 2nd callele, and a combined segment of size PB. In homozygotes, segment PQ and care given in AAF30550-74. Under optimal PCR conditions, the relative indicated by a weak DNA band on agarose gels. Bi-PASA provides a one-tube method for simultaneously differentiating homozygotes and heterozygotes. It can detect small deletions and insertions as well as single base changes. Bi-PASA is also used to perform population screening, haplotype analysis, patient screening and carrier testing. The method is rapid, crown the stranges of the present of the present of the present of the pase consists, patient screening and carrier testing. The method is rapid, crown the stranges and method is rapid, crown the stranges and method is rapid.
                                                                                Query Match
Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present sequence is that of human Factor V (FV) gene primer A4 F5 (254)-23D, used in bi-directional FCR amplification of specific alleles (Bi-PASA). Its name indicates an A primer for FV (F5), the 5' end beginning at base 254 of exon 10 of the FV gene (see AAF30549) and proceeding downstream for 23 bases. It also includes a G10 tail, and the proceeding downstream for 23 bases. It also includes a G10 the FV gene is a mutated A nucleotide. A mutation in exon 10 of the FV gene is associated with venous thromboembolism. Detection of this mutation was
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conducting a bi-directional polymerase chain reaction amplification of specific alleles, involves amplifying DNA containing one or both of two alleles using an outer pair of primers and an inner pair of primers.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Factor V; human; FV gene; bi-directional PCR; Bi-PASA; mutation;
zygosity; homozygote; heterozygote; genetic screening; diagnosis;
venous thromboembolism; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human Factor V gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11-JUN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAF30555 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example; Col 7-8; 22pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             10-SEP-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2001-256850/26.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11-SEP-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (CITY ) CITY OF HOPE.
                                         250 TGGACGCCCAGGCCCCCCCCCC 272
  23 TGCCTGTCCAGGGCCCCCCCCC 1
                                                                                                   Similarity
                                                                                                                                                                  23
                                                                                                                                                                BP; 3
                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      97US-0058575P
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                                                                                                                                                                Α.
                                                                                                 0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PCR primer A4 F5 (254) -23D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              entry)
                                                                                                                                                                5 C; 14 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BP.
                                                                                  0
                                                                                                     Score 15;
Pred. No.
                                                                                                   Pred.
                                                                                  Mismatches
                                                                                                   1.1e+03;
                                                                                                                         DB 1;
                                                                                                                    Length 23;
                                                                                0
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RESULT 1304 AAS47424

AAH01402 ID AAH XX

AAH01402 standard; DNA;

23

0

RESULT 1305

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                                                                                                                                                                                                The invention relates to antisense inhibitors of genes essential to CC prokaryotic cellular proliferation, their use in identifying the genes, CC their use in the discovery of novel antiblotics, the essential genes CC themselves and the encoded proteins. The prokaryotes used are Escherichia CC coli, Staphylococcus aureus, Salmonella typhi, Klebsiella pneumoniae, CC pseudomonas aeruginosa and Enterococcus faecalis. The invention is also CC useful for the identification of potential new targets for antibiotic CC development. The antisense nucleic acids can also be used to identify CC proteins used in proliferation, to express these proteins. and to obtain CC antibodies capable of binding to the expressed proteins. The proteins can be used to screen compounds in rational drug discovery programmes. The can useful to screen compounds in rational drug discovery programmes. The can collect acids sequence is also useful to screen for homologous nucleic acids which are required for cell proliferation in a wide variety of organisms. The present sequence is a PCR primer used to isolate an CC seguence data for this patent did not form part of the printed consequence and the consequence of the invention. Note: The consequence data for this patent did not form part of the printed consequence is obtained in electronic format directly from WIPO
                                                                      Query Match
Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    21-MAR-2000; 2000US-0191078P.
23-MAY-2000; 2000US-020688P.
26-MAY-2000; 2000US-0207727P.
23-OCT-2000; 2000US-0242578P.
27-NOV-2000; 2000US-0253652P.
22-DEC-2000; 2000US-025931P.
16-FEB-2001; 2001US-0269308P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Staphylococcus aureus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Antisense; PCR primer; ss; prokaryotic cellular proliferation; antibiotic; antibacterial; drug design.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                S. aureus PCR primer 1.
                                                                                                                                             Sequence 23 BP; 9 A; 3 C; 5 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New polymucleotides for the identification and development antibiotics, comprise sequences of antisense nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Haselbeck R,
Yamamoto RT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        21-MAR-2001; 2001WO-US009180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WO200170955-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAS47424 standard; DNA; 23 BP
                                                                                                                                                                                at ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 1; Page 92; 511pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (ELIT-) ELITRA PHARM INC.
                                                                                       Local Similarity
                                   1925 CACCAGTGTGACTTTTAAAACAG 1947
                                                                       18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ohlsen KL,
Xu HH;
                                                                                     0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Zyskind JW,
                                                                      0
                                                                                         Score 15; I
Pred. No. 1
                                                                         Mismatches
 23
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                                                                                                            DB 1;
                                                                                       1e+03
                                                                                                         Length 23;
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                                                                         Indels
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RESULT 1301
AAA75332
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   This sequence represents a PCR primer used in the preparation of a thermostable mutant luciferase enzyme from Photinus pyralis (firefly). Firefly luciferase catalyses the oxidation of luciferin with the resultant production of light. Luciferases (both wild type and recombinant) lose activity quite rapidly when exposed to temperatures in excess of 30 degrees celsius. The present invention relates to luciferase enzymes comprising specific mutation which increase its thermostability. Also included in the invention are: 1) a vector comprising a nucleotide sequence encoding the mutant luciferase; 2) a cell transformed with the vector and, 3) a plant comprising the transformed cells; The luciferase enzyme is useful in bioluminescent assays, where it uses the substrate D-luciferin (4,5-dihydro-2-(6-hydroxy-2-benzothiazolyl)-4-thiazole
AAA75311-41 and AAA75393-A75402 are derived from the origin of replication of the pBR322 plasmid. The nucleic acid fragments are useful as probes and primers for detecting sequences derived from the origin of replication of pBR322 or vectors (or their fragments) that contain such
                                                                                                               Nucleic acid sequences that hybridize to the pBR322 origin of replication, useful for monitoring gene therapy vectors, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mutant luciferase enzyme comprising specific mutations which increase thermostability, useful in bioluminescent assays.
                                                                       Claim 3;
                                                                                                                                                               WPI; 2000-587445/55.
                                                                                                                                                                                                                                                   05-MAR-1999;
                                                                                                                                                                                                                                                                                 03-MAR-2000; 2000WO-FR000543
                                                                                                                                                                                                                                                                                                               14-SEP-2000.
                                                                                                                                                                                                                                                                                                                                            WO200053803-A1
                                                                                                                                                                                                                                                                                                                                                                       Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                    gene
                                                                                                                                                                                                                                                                                                                                                                                                                pBR322 plasmid; probe; primer; origin of replication;
                                                                                                                                                                                                                                                                                                                                                                                                                                               Fragment derived
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15-JAN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAA75332 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           carboxylic acid)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 8; Fig 8; 40pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Murray
                                                                                                                                                                                                                         (TRGE ) TRANSGENE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3832
                                                                                                                                                                                                                                                                                                                                                                                                   therapy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CCCCGGTCAGCTCCCAGGCCCCG 3854
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              23
                                                                       Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CGCCGGTGAGCTCCCCGCCGCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BP; 1 A; 12 C; 8 G; 2 T; 0
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                                                                                                                                                                                                                                                                                                                                                                                                    vector; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                         25;
                                                                                                                                                                                                                                                    99FR-00002968
                                                                                                                                                                                                                                                                                                                                                                                                                                               from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           and emits
                                                                       36pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0.3%;
78.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                              the origin of replication of pBR322
                                                                         French
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           light
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 15; DB 1; LC
Pred. No. 1.1e+03;
Pred. No. 1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             23
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 23;
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                                               Matches
                                                         Query Match
Best Local (
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Best Local (
                                                                                                                 The present invention relates to a method for the locus-specific, separate amplification of exon 2, exon 3, and/or exon 4 of human leukocyte antigen (HLA)-A, HLA-B, or HLA-C alleles. The method is useful for subtyping or typing of HLA class 1 alleles. The present sequence is an amplification primer used in the method
                                                                                                                                                                                                                   Locus-specific, separate amplification of exon 2, exon 3, and/or ex of human leukocyte antigen (HLA)-A, HLA-B, or HLA-C alleles using d primer sets, useful for subtyping or typing of HLA Class I alleles.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sequences. They are particularly used to monitor the presence of gene therapy vectors (used to deliver therapeutic genes or proteins, antise sequences or ribozymes), e.g. for determining disappearance of the vector, for adjustment of treatment, or for timing of new treatments. They can also be used to screen foods and cosmetics for the presence derived materials from genetically modified organisms
                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                            09-APR-1999;
11-JUN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             03-MAY-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 23 BP; 3 A; 7 C; 7 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                      WPI; 2000-647426/62.
                                                                                                                                                                                                                                                                                            De Canck I,
                                                                                                                                                                                                                                                                                                                                                                                05-APR-2000; 2000WO-EP002998
                                                                                                                                                                                                                                                                                                                                                                                                         19-OCT-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            HLA-A; HLA-B;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAC80151;
                                                                                                                                                                                                                                                                                                                     (INNO-) INNOGENETICS
                                                                                                                                                                                                                                                                                                                                                                                                                                WO200061795-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Forward primer #22 used for amplification of HLA-A exon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAC80151 standard;
                     3913
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       442 CTCCGCTCCCCTCGGTGGTGTGT 464
                                                                                                                                                                                            4; Page 37; 128pp; English.
μ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       l Similarity
18; Conserv
                                             l Similarity
15; Conserv
CCRCCCCGAAGCCGCGG
                     ccaccccacccccccc
                                                                                              23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CACCGCTACCAGCGGTGGTTTGT
                                                                                              BP;
                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                             Rombout
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            HLA-C;
                                                                                                                                                                                                                                                                                                                                            99EP-00870068.
99US-0138614P.
                                                                                              ω
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78.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DNA;
                                                          0.3%;
                                                                                              12 C; 6 G; 0 T; 0 U; 2 Other;
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                                                                                                                                                                                                                                                                                                                      Z
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            typing; primer; human; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             23
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17
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                                                         Score 15;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Pred. No. 1.1e
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 15;
                                                                                                                                                                                                                                                                                             æ
                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        23
                                                         1.1e+03;
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                                                                       DB 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5; Indels
                                                                      Length 23;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 23;
                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           the presence of
                                                                                                                                                                                                                                               and/or exon
                                             0
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                                               Gaps
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RESULT 1303 AAF30555/c

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                                                                                                                                                                                    RESULT 1299
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Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to methods or renuering reports.

assays more meaningful by the addition of internal control agents.

Primers for a target and an internal control sequence are labelled with a detectable marker which allows concurrent detection and measurement of target and control nucleic acid amplification. The reaction may also contain a non-extendable oligonucleotide (i.e. a blocking sequence) complementary to the internal control sequence, which functions as a negative control. The method can be used for quantitating nucleic acid amplification of control DNA in the presence of, and concurrently with, nucleic acid amplification of known or unknown target DNA. Suggested uses include tracking of target sample extraction, isolation and purification of for complements ample extraction, isolation and purification of polymorphic samples or pathogen detection. Primers AAZ40585-Z40587 are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Method of conducting nucleic acid amplification control reactions used for e.g. carrying out real time monitoring of nucleic acid amplification reactions and positive and negative control tests.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Reporter; quencher; probe; assay; internal control agent; primer; PCR; detection; measurement; amplification; blocking sequence; copy-number; quantitation; allele; discrimination; polymorphism; pathogen; NPTII; s
                                                                                                                                                                                                                                                                                                                                                      Sequence 23 BP;
                                                                                                                                                                                                                                                                                                                                                                                                 used to detect NPTII RNA in transgenic cotton plants by the method invention. This primer was used as a self-quenching internal position.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  14-SEP-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAZ40587;
              bioluminescent assay;
                           PCR primer; luciferase; produce light; firefly; thermostable mutant;
                                                           PCR primer
                                                                                           25-SEP-2000
                                                                                                                                                    AAA53357 standard;
                                                                                                                                                                                                                                                                                                                                                                                      control probe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 3; Col 20; 29pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2000-011874/01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Aoyagi K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (PEKE ) PERKIN-ELMER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       26-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    26-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US5952202-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      29-FEB-2000
                                                                                                                                                                                                                                                               4689
                                                                                                                                                                                                                                 23
                                                                                                                                                                                                                                                                                            18; Conser
                                                                                                                                                                                                                                                              AGCCTGTTCTGTCCAGCTTCAGT 4711
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Livak KJ
                                                           SACI-anti used in thermostable luciferase preparation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      self-quenching
                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              positive and negative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       98US-00048880
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                                                                                                                                                      DNA; 23
                                                                                                                                                                                                                                                                                                       0.3%;
                                                                                                                                                                                                                                                                                                                                                    4 C; 10 G; 3 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       internal
                                                                                                                                                      ВP
                                                                                                                                                                                                                                                                                            0
                                                                                                                                                                                                                                                                                         Pred. No. 1.1
0; Mismatches
                                                                                                                                                                                                                                                                                                         Score 15; DB 1;
Pred. No. 1.1e+03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      positive
                                                                                                                                                                                                                                                                                                         1.1e+03;
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                                                                                                                                                                                                                                                                                            5
                                                                                                                                                                                                                                                                                                                         Length 23;
                                                                                                                                                                                                                                                                                              Indels
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                                                                                                                                                                                                                                                                                                                                                                                                   internal positive
                                                                                                                                                                                                                                                                                            0
                                                                                                                                                                                                                                                                                           Gaps
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Squirrell DJ,

Murphy MJ,

Price RL,

Lowe CR,

White

걸

Tisi LC;

(MINA) UK SEC

FOR DEFENCE. 98GB-00023468

28-OCT-1998; 26-OCT-1999; 04-MAY-2000

99WO-GB003538

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 1300
AAA53356
                                                                                                                                                                                                                                                                                                                                                                                                                             S
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
Matches 18; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Firefly luciferase catalyses the oxidation of luciferin with the resultant production of light. Luciferases (both wild type and recombinant) lose activity quite rapidly when exposed to temperatures in excess of 30 degrees celsius. The present invention relates to luciferase enzymes comprising specific mutation which increase its thermostability. Also included in the invention are: 1) a vector comprising a nucleotide sequence encoding the mutant luciferase; 2) a vector and, 3) a plant comprising the transformed with the vector and, 3) a plant comprising the transformed cells; The luciferase enzyme is useful in bioluminescent assays, where it uses the substrate D-luciferin (4,5-dihydro-2-(6-hydroxy-2-benzothiazoly1)-4-thiazole
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 23 BP; 2 A; 8 C; 12 G; 1 T; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This sequence represents a PCR primer used in the preparation of a thermostable mutant luciferase enzyme from Photinus pyralis (firefly).
                                                                                                                                                                                                                                                                                                   AAA53356;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             carboxylic acid) and emits light
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 8; Fig 8; 40pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mutant luciferase enzyme comprising specific mutations which thermostability, useful in bioluminescent assays.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2000-350724/30.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WO200024878-A2
                                                                                                                                        WO200024878-A2
                                                                                                                                                                   Photinus pyralis.
                                                                                                                                                                                              bioluminescent assay;
                                                                                                                                                                                                             PCR primer; luciferase; produce light; firefly; thermostable mutant;
                                                                                                                                                                                                                                        PCR primer SACI-sense used in thermostable luciferase preparation.
                                                                                                                                                                                                                                                                       25-SEP-2000
                                                                                                                                                                                                                                                                                                                            AAA53356 standard; DNA; 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Squirrell DJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28-OCT-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   26-OCT-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Photinus pyralis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (MINA ) UK SEC
                                                                                                                                                                                                                                                                                                                                                                                                    23
                                                                                                                                                                                                                                                                                                                                                                                                                             cccceercaecrcccaeecccce 3854
                                                                                                                                                                                                                                                                                                                                                                                                    CGCCGGTGAGCTCCCCGCCGCCGC 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.3%;
ilarity 78.3%;
Conservative
                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Murphy MJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      98GB-00023468
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 15;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  U; 0 Other
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           <u>ت</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 23;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 White PJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Tisi LC;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         0;
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RESULT 1296
AAZ23767/c
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Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  strand and a region which is heterologous to the target gene for introducing a predetermined alteration into a target gene of a cukaryotic cell, other than a yeast or fungus. The chimeric polynucleotide contains both RNA and DNA residues in the first strand and solely DNA residues in the second strand; wherein the strands are Watson-crick paired and are linked by an oligonucleotide be trands are Watson-crick paired and are single 3' and 5' end. The ribo-deoxynucleic acids can be used for specifically introducing alterations into a target nucleic acid. They can be used for e.g. the production of transgenic animals. The present sequence represents a control vector used along with a chimeric vector which was constructed to direct a mutation in the NIH 3T3 cells. The transformation of the NIH 3T3 cells results in selectable alteration in
            library targeted to a selected RNA transcript. The methods can be used for identifying antisenne agents and for identifying target sites for antisense-mediated inhibition of a selected gree. The use of a direct library for target site selection significantly simplifies the screening process, since only very small libraries need be prepared and assayed. AAZ23765-Z23767 represent multiple cloning site DNA regions used in the
                                                                                                                                                                                                                     Claim 3; Page 37;
                                                                                                                                                                                                                                                                         selected
                                                                                                                                                                                                                                                                                           Production of antisense libraries, used for identifying antisense and for identifying target sites for antisense-mediated inhibition
                                                                                                                                                                                                                                                                                                                                                                        WPI; 1999-610866/52.
                                                                                                                                                                                                                                                                                                                                                                                                                         Ruffner
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        28-MAR-1998;
06-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    07-OCT-1999.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Antisense; DNA library; identification; multiple cloning
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Cloning vector multiple cloning site 3 DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          14-JAN-2000
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                                                                                                                                                                         This invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   28-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (UTAH )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    inhibition;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  growth characteristics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3911 GCCCACCCGACGCGGCGGCGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  18;
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                                                                                                                                                                                                                                                                                                                                                                                                                         DE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          VIND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                      gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GCCCACACCGACGGCGCCACCAC 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    88.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BP; S A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          egions homologous with a target gene and a segment or deoxynucleotides which form a hybrid-duplex of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry
                                                                                                                                                                                                                                                                                                                                                                                                                         Pierce ML,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          UTAH RES
invention
                                                                                                                                             describes a novel method for generating an antisense . . ed to a selected RNA transcript. The methods can be used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      98US-0079792P.
98US-0107504P.
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                                                                                                                                                                                                                   63pp;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FOUND
                                                                                                                                                                                                                     English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            23
                                                                                                                                                                                                                                                                                                                                                                                                                         Chen
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3933
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1e+03
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         site; MCS;
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RESULT 1298 AAZ40587/c ID AAZ4058

AAZ40587

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AAX15440/c
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                                             Matches
                                                        Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                              Oligonucleotides AAX15540-46 are used in the course of the invention. specification describes a cellulase enzyme designated SCE-3. The cellulase is used in the methods of the invention for treatment of containing fibres, for bleaching denim-dyed cellulose-containing fibres, for eliminating fluffs from cellulose-containing fibres, for weight loss treatment of cellulose-containing fibres, for weight loss treatment of cellulose-containing fibres and deacetylated triacetate rayon, all by contacting the preparation with such fibres. It is useful in the textile and related industries
                                                                                                                                                                                                                                                   Cellulose preparation containing highly active cellulase SCE3 - e. treating cellulose-containing fibres to enable fluff elimination, loss and bleaching, and in weight loss treatment of deacetylated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                          Sato Y, Watanabe
Murakami T, Kono
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Cellulase enzyme; cellulose-containing fibre; bleaching; denim-dyed; fluff elimination; weight loss treatment; deacetylated triacetate rayon;
                                                                                                                                                                                                                     Example 4; Page 14; 44pp; Japanese.
                                                                                                                                                                                                                                             tri:acetate
                                                                                                                                                                                                                                                                                                                                                                                                                               03-DEC-1998.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SCE-3; 88.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Oligonucleotide
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                                                                                                                                                                                                                                                                                                                                                                                  27-MAY-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO9854332-A1
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                                                                                                                                                                                                                                                                                                                                                           (MEIJ ) MEIJI SEIKA KAISHA LTD
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                      3537 CCGCTGACGAAGCCCGAGATGTT 3559
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23
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                                             18;
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                                                        Similarity
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                                                                                         23 BP; 4 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GCTGAAGCTTGGTGACTGTCTTC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BP; 8
                                            Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DNA;
                                                       78.3%;
                                                                                         6 C; 7 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      7
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                                                                                                                                                                                                                                                                                                                                    Koga J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.3%;
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                                                                   Score 15;
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Pred. No. 1
                                                        Pred.
                                             Mismatches
                                                                                                                                                                                                                                                                                                                                      Nakamura
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                                                                   DB 1;
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                                                        1e+03
                                                                                                                                                                                                                                                                                                                                       Sumida
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AAV11733
ID AAVV
XX
AC AAVI
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AC Hybi
XX
UBti
XX
OS Syni
OS UBt:
XX
PN US5'
XX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 1294
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                                                                                                                                                                                                                                                                                                                                                                                                                 S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     This sequence represents a primer used in the method of the invention for the detection of the presence or absence of chromosomal abnormalities, and can abnormalities, the detection of the presence or absence of chromosomal abnormalities, and cach abnormality being associated with a condition in a subject and each being defined by at least one characteristic nucleic acid sequence. The method comprises: (a) obtaining a sample of nucleic acids derived from a subject which may harbour one of the chromosomal abnormalities; (b) subjecting the sample to a multiplex molecular amplification (MMA) procedure, where a number of the characteristic sequences, if present in a sufficient amount, will be amplified; (c) retrieving the product(s) from step (b), and detecting the presence and/or absence of an amplicon characteristic of the abnormal sequences to detect the presence or absence of corresponding chromosomal abnormalities; where the MMA procedure comprises the use of at least 7 mutually distinct primers (MDP) in one single reaction mixture, each of the primers defining an end of at least one characteristic nucleic acid sequence, and where at least one of the primers defines the first end of at least two characteristic nucleic acid sequences each being determined in their opposite ends by MDP selected from the remainder of the MDP. The methods can be used for detecting chromosomal abnormalities associated with diseases including numerous leukaemia's, lymphoma's, adenocarcinoma's, sarcoma's, clioma's, nurrhlara's,
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Detection of chromosomal abnormalities - by subjecting patient sample nucleic acids to a multiplex molecular amplification procedure using primers specific for characteristic nucleic acid sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
                      US5756325-A
                                                                                                                  Hybrid-duplex;
                                                                                                                                                                                                07-AUG-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          carcinoma's, adenocarcinoma's, sarcoma's, glioma's, neuroblastoma's, medullablastoma, malignant melanoma, and malignant neoplastic condit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 73; Page 98; 126pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pallisgaard N,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         06-DEC-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  08-DEC-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         11-JUN-1998.
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                                                                                                                                                       Ustilago maydis ura-3 gene control vector DNA
                                                                                                                                                                                                                                                                            AAV11733 standard; DNA; 23 BP
                                                         Ustilago maydis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (PALL/) PALLISGAARD N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local
                                                                                                                                                                                                                                                                                                                                                                                                                 2763 TTCCACTCGAGCTGCTTGGAGAG 2785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                                                            TTCCACTAGAGGTGTGCAGAG 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.3%;
nilarity 78.3%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BP; 5 A; 4 C; 8 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                (first entry)
                                                                                                                      ribo-deoxyribonucleic acid; RNA-DNA; target; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Hokland
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           96DK-00001401
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  97WO-DK000556
                                                                                                                                                                                                                                                                                                                                                                                                                                                     0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 15;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 23;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
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RESULT 1295
AAX05303
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                           09-DEC-1993;
09-DEC-1994;
09-SEP-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This sequence is used in a method of producing a mixed hybrid-duplex of ribo-deoxyribonucleic acid (RNA-DNA). Such complexes are used to introduce a predetermined alteration in a target sequence of the genome of a cultured cell containing a nucleus and to obtain cells with altered characteristics. The nucleic acids permit easy alteration of an existing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 23 BP; 5 A; 13 C; 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               09-DEC-1993;
09-DEC-1994;
                                                                                                                                                                                                                                     US5871984-A
                                                                                                                                                                                                                                                                     Synthetic.
                                                                                                                                                                                                                                                                                                                             Control vector used in transformation of NIH 3T3 cells.
                                                                                                                                                                                                                                                                                                                                                  15-APR-1999
                                                                                                                                                                                                                                                                                                                                                                                              AAX05303 standard; DNA; 23 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example; Col 8; 11pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mixed RNA-DNA nucleic acids - useful for genetic modification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1998-321532/28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 09-SEP-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      26-MAY-1998.
                                                                                                                                                                                        02-DEC-1997;
                                                                                                                                                                                                              16-FEB-1999
                                                                                                                                                                                                                                                                                            human; ss.
                                                                                                                                                                                                                                                                                                      Chimeric; target gene; alteration; yeast; fungus; transgenic animal;
                                          New mixed ribo-deoxyribonucleic acid compounds - having homologous and heterologous regions for introducing a predetermined alteration into a
                                                                           WPI; 1999-166651/14.
                                                                                                 Kmiec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (UYJE-) UNIV
                                                                                                                       (UYJE-) UNIV
                                                                                                                                                                                                                                                          iomo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3911 GCCCACCCGACGCCGCGCCGC 3933
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   within a cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                    GCCCACACCGACGGCGCCACCAC 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JEFFERSON THOMAS
                                                                                                                       JEFFERSON THOMAS
                                                                                                                                          93US-00164303.
94US-00353657.
96US-00709982.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               93US-00164303.
94US-00353657.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 96US-00709982
                                                                                                                                                                                        97US-00982866
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0.3%;
78.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 15; DB 1;
Pred. No. 1.1e+03;
0; Mismatches 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 23;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        of cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
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Example 2; Col 8; 10pp; English

target gene in a eukaryotic cell.

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RESULT 1291
AAQ87858/c
ID AAQ8785
XX AAQ8785
XX 25-MAR-
DT 25-MAR-
DT 27-JUL-
XX Probe;
KW Probe;
KW Probe;
KW Coagula
XX Synthet
XX W09414;
XX O7-JUL-
XX O7-JUL-
XX ISTP
PT Sirna
XX WPI; 1
XX PF Sirna
XX Sirna
XX O7-JUL-
XX Sirna
XX Sirna
XX PF Sirna
XX Sirna

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                                                                                                                                                                                                                                                                                                                           The sequences given in AAQ87854-69 are probes which were used in the Ci isolation of the component B gene. The probes are targetted to various Cregions of the gene including the promoter, the three exons and intron 2. These probes were used to screen a human genomic library. The component B gene contains three exons and two introns. Exon 1 is 84 bp and contains CC 26 bases of untranslated mRNA. It encodes 19 amino acids of the putative signal peptide and is separated from exon 2 by an intron of 410 bp. Exon CC 2 is 120 bp and codes for 3 amino acids of the putative signal sequence CC and intron of abbout 550 bp. Exon 3 is 326 bp and encodes the C-terminal CC 44 amino acids of component B, and 192 bases of untranslated RNA which CC contains a poly-A signal 14 bp upstream of the 3' processing site. CC component B is a low molecular weight protein which may be isolated from CC solatum hydroxide. It inhibits binding of TGF-alpha to its receptor, and contains antiinflammatory, anticoagulant and/or antitumour activities. It can also be used to treat conditions associated with altered levels of TGF-alpha, eg. behavioural or hormonal disturbances and angiogenesis. See CC can also AAQ87876-78. (Updated on 25-MAR-2003 to correct PN field.) (Updated CC on 75-MAR-2007 to correct PN field.)
                                                                                                                                                     Query Match
Best Local (
                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New protein, component B, isolated from urine - with antiinflammatory, anticoagulant and anti-tumour activities, also related nucleic acid,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAQ87858 standard; DNA; 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 2; Page 20; 55pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   22-DEC-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            07-JUL-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO9414959-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Component B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         25-MAR-2003
27-JUL-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21-DEC-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (ISTF ) ARS APPLIED RES SYST HOLDING NV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                low molecular weight
                                                                                                                                                                                                                                                                                                              25-MAR-2003 to correct
23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               component B; promoter; human; signal peptide;
lecular weight protein; urine; TGF-alpha; receptor; inflammation;
ation; tumour; angiogenesis; ss.
                                                                                                                                                         Similarity
                                                                                                                                                                                                                                                 23
                                                       AACATCACCCGCTCCAAGGCGGA 559
                                                                                                                                                                                                                                                 BP; 3 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 transformed cells.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           gene probe, CB2,
                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (revised)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   .92IT-RM000919
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              93WO-EP003645
                                                                                                                                                  0.3%;
78.3%;
                                                                                                                                                                                                                                             4 C; 9 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                  PR
                                                                                                                        0,
                                                                                                                                                     Score 15; I
                                                                                                                                                                                                                                                                                                              n 25-MAR-2003
field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           is targetted to
                                                                                                                        Mismatches
                                                                                                                                                                                   DB 1;
                                                                                                                                                         1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              exon
                                                                                                                                                                               Length 23;
                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           N
                                                                                                                     <u>.</u>
                                                                                                                     Gaps
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RESULT 1292 ADG77507/c ID ADG77507 standard; DNA;

23

Synthetic

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SXXXXXXXXXXXXXX
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                                                                                                                                                                                             RESULT 1293
AAV41029
                                                                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                                                                Query Match
Best Local 9
                                                                                                                                                                                                                                                                                                                                                                                                       This invention relates to novel oligonucleotide PCR primers which may be used to identify markers associated with genetic diseases and traits in dogs, in particular to diagnose genetic diseases that are not phenotypically visible and to identify carriers of recessive diseases. A specific application is diagnosis of copper toxicosis (CT). The inventior can also be used to create a genetic map of the canine genome; to generate breed-specific profiles; to establish paternity and to identify dogs from DNA fingerprints. The method provides rapid analysis of the target sequences from only a small sample of DNA. Diagnosis can be done at any time in the dog's life. The present sequence is that of a PCR primer of the invention.
                         PCR primer; chromosomal abnormality; abnormality detection; leukaemia; lymphoma; carcinoma; adenocarcinoma; sarcoma; glioma; neuroblastoma; medullablastoma; malignant melanoma; malignant neoplastic condition; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New oligonucleotide primers for diagnosis of genetic diseases and traits in dogs - amplify specific regions of the genome containing microsatellite repeats, especially for diagnosing copper toxicosis and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         genetic disease; genetic trait; dog; carrier of recessive disease; copper toxicosis; CT; canine genome map; breed-specific profile; DNA fingerprint; dog identification; PCR; primer; ss.
                                                                                                                                                                                AAV41029 standard;
                                                                                                                                                                                                                                                                                                                                                                               Sequence 23
                                                                                      Primer ALLAF10B:3996L23 for abnormality detection.
                                                                                                                     25-SEP-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 1; Page 14; 40pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 1997-435082/40.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         22-FEB-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       18-FEB-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     28-AUG-1997.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO9731011-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Canis familiaris.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Canine disease marker-related PCR primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADG77507;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (UNMI ) UNIV MICHIGAN.
                                                                                                                                                                                                                                                                           290 CTCTCTTGCTTGGTTTCTGTAAT 312
                                                                                                                                                                                                                                                                                                                    . 18;
                                                                                                                                                                                                                                                        23
                                                                                                                                                                                                                                                                                                                                    Similarity
                                                                                                                                                                                                                                                          CTCTATTTCTTGGATTCTGCATT 1
                                                                                                                                                                                                                                                                                                                                                                              BP; 12 A; 3 C; 5 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Venta PJ,
                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       97WO-US002396
                                                                                                                                                                                DNA;
                                                                                                                                                                                                                                                                                                                                0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Yuzbasiyan-Gurkan
                                                                                                                                                                               23
                                                                                                                                                                                ВÞ
                                                                                                                                                                                                                                                                                                                  0
                                                                                                                                                                                                                                                                                                                                Score 15;
Pred. No.
                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                              Length
                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                  ,
,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  seases. A invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 1426
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Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        from a non-mutated sequence of a target polynuclectide (TP) in a sample, by using a mismatch binding protein (MBP), comprises: (a) providing a non-mutated and mutated TP; (b) forming duplex of the non-mutated and mutated of TP in (a); (c) adding a single strand binding protein to the polynuclectide from (b); (d) incubating MBP with an activating agent; (e) adding the incubated MBP from (d) to the polynuclectide from (c); so that MBP binds to the duplex formed by one non-mutated and one mutated single strand of TP; and (f) detecting the presence of any MBP bound to TP. The method may be used for early diagnosis of cancer. Binding of MBP to single strands is inhibited by the single strand binding protein. By activating MBP with an activator, before addition to the sample, binding to double strands lacking
             Unger EC,
                                                                                                                                                                                                                                                                                                                                                                                                                                         AAX77060 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 20
                                                                                                                                                                                                                                                                PCR primer; proto-oncogene; oncogene; nucleic acid synthesis; ultrasound; stress protein; repair protein; phenylketonuria; p53 tumour suppressor; phenylalanine hydroxylase; IL-2 production; cancer; AIDS; haemphilia; autoimmune disease; chronic viral infection; cystic fibrosis; therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  This sequence represents a puthe method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 1; Page 9; 24pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Method for detecting mutation(s) by mismatch binding protein - useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 1998-130209/12.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          29-MAY-1996;
                                                                                                                                                                      WO9925385-A1
                                                                                                                                                                                                                                                                                                                                                                            10-AUG-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            mismatches does not take place
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             separating mutation from non-mutat
used in early diagnosis of cancer.
                                             (IMAR-) IMARX PHARM CORP.
                                                                                                        11-NOV-1998;
                                                                                                                                         27-MAY-1999.
                                                                                                                                                                                                                    Synthetic.
                                                                                                                                                                                                                                                                                                                                             PCR primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (PHAA ) PHARMACIA BIOTECH AB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      536 CAACATCACCCGCTCCAA 553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CAACACCACCTGCTCCAA 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Goto M,
             Mccreery T, Sadewasser
                                                                                                                                                                                                                                                                                                                                            for the XPB gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BP; 6 A; 11 C; 1 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          96SE-00002062
                                                                           97US-00971540
                                                                                                          98WO-US023843
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              from non-mutated target polynucleotide in sample,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  a probe for the N-ras gene, that can
ion. The method is for for detecting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 14.8; DB 1;
Pred. No. 9.9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1; Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    that can
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    a mutation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  be used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0;
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#X#X#X5555555555555555555555555555555
                                              This sequence represents a PCR primer for a proto-oncogene/oncogene, and CC was used to test the method of the invention. The method is for CC increasing synthesis of nucleic acid (I) in a cell by exposing it to CC ultrasound, where (I) is: (a) an endogenous sequence (Ia) encoding a CC stress or repair protein; or (b) an introduced exogenous sequence (Ib). CC The method is specifically used therapeurically: (i) to treat CC phenylketonuria (following introduction of [Ib) for phenylateonyria (following introduction of (Ib) for phenylalanine CC iii) to increase production of IL-2, particularly associated with CC (iii) to increase production of IL-3, particularly associated with CC (iii) to increase production of IL-3, particularly associated with CC (iii) to may include one or treating cancer by administering a CC sequence antisense to initiation factor 3 and/or tRNA synthase. More CC complete chromosomes, for delivery (in vivo, in vitro or even CC complete chromosomes, for delivery (in vivo, in vitro or expension), e.g. acquired immune deficiency syndrome, aucoimmune diseases, chronic viral cinfections, haemophilia, cystic fibrosis, and cancer. Ultrasonic viral CC carticularly of 4-6 kb
  Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1999-370731/31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Increasing nucleic acid synthesis by ultrasonic treatment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Page 113;
  BP; 2 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     124pp; English
  9 C; 1
G; 8 T;
  0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           of cells.
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Matches
                                        Query Match
Best Local
                                         Local Similarity
               267 CCCCTCTCTCTCTTCTC 284
                                 16;
                                 Conservative
                                        0.3%;
18
                                0;
                                         Score 14.8;
Pred. No. 9.
                                 Mismatches
                                       9.9e+02
                                                  DB 1;
                                                  Length 20;
                                 Indels
                                 0
                                 Gaps
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RESULT 1427 AAX15770 solid tumor growth; and diabetic retinitis; ss. Vascular endothelial cell growth factor; VEGF; antisense oligonucleotide; solid tumor growth; anticancer agent; rheumatic arthritis; Antisense oligonucleotide targeted to upstream sequence of VEGF 07-MAY-1999 AAX15770 standard; (first entry) CDNA ť mRNA; 20 BP.

Synthetic

JP11042091-A.

16-FEB-1999.

25-JUL-1997; 97JP-00213838.

25-JUL-1997; 97JP-00213838

GOSEI CHEM

WPI; 1999-197823/17.

An antisense nucleic acid compound against vascular endothelial cell growth factor (VEGF) - useful as an anticancer agent, and for treatm of rheumatic arthritis and diabetic retinitis. and for treatment

Page 7; 16pp; English.

AAX15764-81 represent antisense oligonucleotides targeted to the upstream sequence of the coding region for vascular endothelial cell growth factor (VEGF). Antisense oligonucleotides targeted to this region inhibit at

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AAV20058/c
ID AAV200
XX
AC AAV200
XX
DT 06-JUL
XX
DE N-ras
XX
Probe;
KW cancer
XX
OS Synthe
                                                                                                                                                                                                                                                                                 ş
                                                                                                                                                                                                                                                                                                                                                                                RESULT 1424
                                                                                                                                                                                                                                                        문
                                                                                                                                                                                                                                                                                                                                                                                                                     cc consensus sequence is a primer for a human or mammalian DNA replication origin consensus sequences of the invention, designated alphaconsensus. Cc Administration of the consensus sequence or an anti-gene (comprising a double stranded copy of the consensus) is used to inhibit DNA replication in vivo or in vitro. The consensus sequences can also be inserted into an cexpression vector, used subsequently for in vitro transfection of cc mammalian cells, to control initiation of DNA replication. They can also be used used to maintain circular plasmids that are capable of semi-cc conservative replication in proliferating mammalian cells, or inserted into mammalian or human artificial chromosome vectors for gene therapy. Particularly, they are used to create shuttle vector constructs for chromosomal function. The consensus sequence can be combined with cloned chuman telomeres and large centromeric blocks for assembly of human or artificial chromosomes and maintained as bacterial plasmids, circular or linear, large or small yeast artificial chromosomes (YACs) or as episomal
                                                                                                                                                                                                                                                                                                                   Query Match
Best Local S
Matches 16
                              Probe; N-ras; mutation detection; mismatch binding protein; cancer diagnosis; single strand binding protein; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human or mammalian origin of replication consensus sequences - for inhibiting DNA replication, for controlling initiation of replication, maintaining circular plasmids and in assembly of human artificial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA replication origin; human; mammal; alphaconsensus; uniorsconsensus; anti-gene; DNA replication inhibitor; shuttle vector construct creation gene therapy; PCR primer; ss.
                                                                                                             06-JUL-1998
                                                                                                                                              AAV20058
                                                                                                                                                                           AAV20058 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; Page 13; 54pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 1998-362770/31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Price GB, Zannis-Hadjopoulos
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16-DEC-1996;
21-MAY-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              25-JUN-1998.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO9827200-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               12-DEC-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (UYMC-) UNIV MCGILL.
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                                                                                                                                                                                                                                                                                      237
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                                                                                                                                                                                                                                                                                                                                 Similarity
                                                                                                                                                                                                                                                                                    GTGTATGGGACGGTGGAC
                                                                                                                                                                                                                                                       GTGTATGGGACGGTAGTC
                                                                                                                                                                                                                                                                                                                                                                                20
                                                                                                                                                                                                                                                                                                                                                                                BP;
                                                                               RB671A
                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                             (first entry)
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97US-0047322P.
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                                                                                                                                                                                                                                                                                                                                0.3%;
                                                                                                                                                                                                                                                                                                                                                                              2 C; 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              English
                                                                                                                                                                                                                                                        19
                                                                                                                                                                                                                                                                                      254
                                                                                                                                                                                                                                                                                                                    <u>,</u>
                                                                                                                                                                                                                                                                                                                   Score 14.8; D
Pred. No. 9.9e
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                              G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Z,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Nielsen
                                                                                                                                                                                                                                                                                                                                   9.9e+02
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                                                                                                                                                                                                                                                                                                                                                 DB 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Cossons
                                                                                                                                                                                                                                                                                                                                                Length 20;
                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                   0
                                                                                                                                                                                                                                                                                                                 Gaps
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RESULT 1425
AAV20059
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                           This sequence represents a probe for the N-ras gene, that can be used in the method of the invention. The method is for for detecting a mutation from a non-mutated sequence of a target polynucleotide (TP) in a sample, by using a mismatch binding protein (MBP), comprises: (a) providing a non-mutated and mutated TP; (b) forming duplex of the non-mutated and mutated TP; (b) forming duplex of the non-mutated and protein to the polynucleotide from (a); (c) adding a single strand binding protein to the polynucleotide from (b); (d) incubating MBP with an activating agent; (e) adding the incubated MBP from (d) to the polynucleotide from (c), so that MBP binds to the duplex formed by one non-mutated and one mutated single strand of TP; and (f) detecting the presence of any MBP bound to TP. The method may be used for early diagnosis of cancer. Binding of MBP to single strands is inhibited by the single strand binding protein. By activating MBP with an activator, before addition to the sample, binding to double strands lacking
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          :
4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Method for detecting mutation(s) by mismatch binding protein - useful separating mutation from non-mutated target polynucleotide in sample, used in early diagnosis of cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Key
modified_base
                                                                                                         Probe; N-ras; mutation detection; mismatch binding cancer diagnosis; single strand binding protein; ss
                                                                                                                                                      N-ras probe 681C.
                                                                                 Synthetic
                                                                                                                                                                                  06-JUL-1998
                                                                                                                                                                                                               AAV20059;
                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                    mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 1; Page 9; 24pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 1998-130209/12.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   04-DEC-1997.
22-MAY-1997;
                           04-DEC-1997.
                                                       WO9745555-A1
                                                                                                                                                                                                                                       AAV20059
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               29-MAY-1996;
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                                                                                                                                                                                                                                                                                                                                       536 CAACATCACCCGCTCCAA
                                                                                                                                                                                                                                                                                                              19
                                                                                                                                                                                                                                                                                                                                                                  16;
                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                       standard;
                                                                                                                                                                                                                                                                                                              CAACACCACCTGCTCCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                    does
                                                                                                                                                                                                                                                                                                                                                                                                                        BP; 2 A; 1 C; 11 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                   (first
97WO-SE000839.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         97WO-SE000839
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               96SE-00002062
                                                                                                                                                                                                                                                                                                                                                                                                                                                    not take place
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /*tag= a
/note= "Biotinylated"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Location/Qualifiers
                                                                                                                                                                                                                                         DNA;
                                                                                                                                                                                                                                                                                                                                                                              0.3%;
                                                                                                                                                                                                                                         20
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                                                                                                                                                                                                                                         ВP
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                                                                                                                                                                                                                                                                                                                                                                  Score 14.8; DB 1; Pred. No. 9.9e+02; 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                           1; Length 20;
                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                         protein;
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for

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RESULT 1422
AAX10186
ID AAX1018
XX
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                                                                                                                                                                                                                                                                                                                        CC A new method has been produced for the detection of an activated ras gene CC containing a mutated codon. The method involves: either cleaving a human CC subject's genomic DNA with a restriction enzyme to produce DNA fragments CC and treating the fragments to obtain single-stranded DNA molecules or cisolating the subject's polyA+ mRNA; contacting the single-stranded DNA CC molecules or polyA+ mRNA under hybridising conditions with a labelled CC synthetic DNA molecule, optionally bound to a solid support, comprising CC 12-20 nucleotides, where the synthetic DNA molecule is 5'-B-Q-D-3' in the CC case of single-stranded DNA or is complementary to 5'-B-Q-D-3' in the CC case of polyA+ mRNA, B = 0-9 nucleotides having a sequence complementary to a sequence in the activated ras gene 5' of the mutated codon, D = 0-12 cm cleotides having a sequence complementary to a sequence in the activated ras gene 5' of the mutated codon, D = 0-12 cm cleotides having a sequence complementary to a sequence in the activated ras gene 3' of the mutated codon, provided that B and D contain CC atotal of at least 9 nucleotides, and Q is complementary to the mutated codon; treating the resulting hybridised molecules under conditions CC permitting only fully complementary molecules under conditions of the underted only fully complementary molecules to remain hybridised; and CC permitting fully fully complementary molecules to remain hybridised; and CC permi
                                                                                                                                                                                                        Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             23-JUL-1985;
04-AUG-1987;
21-APR-1992;
                 AAX10186 standard; DNA; 20
                                                                                                                                                                                                                                                                                         Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 23; Col 28; 20pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          mutated codon.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 1997-086629/08.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Detection of activated ras gene - using oligo:nucleotide probes to detect
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Van Der Eb AJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            07-JAN-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mutated codon; single base mutation; human; acute myeloid leukaemia; tumour; activated ras gene; N-ras; H-ras; K-ras; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           25-MAR-2003
02-OCT-1997
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Probe for detecting N-ras gene mutations in the codon at position 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAT48677;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (UYLE-) RIJKSUNIV LEIDEN.
                                                                                                                                                               2355 TCCCACGACCAGCTGCTC 2372
                                                                                                                          Ŋ
                                                                                                                                                                                                                            Similarity
                                                                                                                        TCCCAACACCAGCTGCTC
                                                                                                                                                                                                                                                                                         BP; 4 A; 10 C; 2 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (revised)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             85US-00758104.
87US-00081490.
92US-00873352.
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                                                                                                                                                                                                                            0.3%;
                     BP.
                                                                                                                                                                                                0;
                                                                                                                        19
                                                                                                                                                                                                                            Score 14.8; DB 1;
Pred. No. 9.9e+02;
                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                           Length 20;
                                                                                                                                                                                                        Indels
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                                                                                                                                                                                                      Gaps
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닮쏬뭐
                                            #XXX
                                                                                                            RESULT 1423
AAV44656
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                                                                                                                                                                                                                                                                                                               C. AAX09121-X10268 are allele-specific oligonucleotide primers used in the isolation of various biallelic polymorphic markers found in the human C genome (represented in AAX10269-X12937). These primers can be used in a comethod for determining polymorphic forms in an individual for use in e.g. C forensics, paternity testing or for phenotypic typing for diseases such as agammaglobulinemia, diabetes insipidus, Lesch-Nyhan syndrome, muscular C dystrophy, Wiskott-Aldrich syndrome, Fabry's disease, familial C hypercholesterolemia, polycystic kidney disease, hereditary spherocytosis, von Willebrand's disease, tuberous sclerosis, hereditary spherocytosis, von Willebrand's disease, tuberous sclerosis, hereditary c spherocytosis, von Willebrand's disease, tuberous sclerosis, hereditary cautoimmune diseases, inflammation, cancer, diseases of the nervous system, infection by pathogenic microorganisms, and characteristics such as longevity, appearance (e.g. baldness, obesity), strength, speed, c endurance, fertility, and susceptibility or receptivity to particular c drugs or therapeutic treatments. The isolated polymorphic nucleic acid segments can also be used to produce medicaments for the treatment or c prophylaxis of such diseases
                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                             Query Match
Best Local
                             06-OCT-1998
                                                              AAV44656;
                                                                                           AAV44656 standard; DNA;
                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New isolated nucleic acid segments from the human genome - used determining polymorphic forms for use in e.g. forensics, paterni testing or phenotypic typing for disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Polymorphism; biallelic; human; forensic; paternity testing; disease; detection; phenotypic typing; characteristic; infection; hereditary; autoimmune disease; cancer; inflammation; drug; therapy; medicament;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 16; Page 211; 310pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     06-NOV-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      05-NOV-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     14-MAY-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human biallelic polymorphic marker downstream primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAX10186;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     treatment; marker; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (WHED ) WHITEHEAD INST BIOMEDICAL
                                                                                                                                                                                                           2376 GAGAGGAGGGAGCAGAAG 2393
                                                                                                                                                                              N
                                                                                                                                                                                                                                              l Similarity
16; Conserv
                                                                                                                                                                                                                                                                                                            20 BP; 10
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                           (first entry)
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                                                                                             В₽
                                                                                                                                                                                                                                                                                                              9 G; O T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                English.
                                                                                                                                                                              19
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                                                                                                                                                                                                                                            Score 14.8; DB 1; Length 20; Pred. No. 9.9e+02; O; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                              0 U;
                                                                                                                                                                                                                                                                                                              0 Other;
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Primer for human DNA replication origin consensus sequence.

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RESULT 1419
AAT77595/c
ID AAT7759
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XX AAT7759
XX Wheat r
XX Wheat;
XX Wheat;
XX Wheat;
XX PD 191ymo
OS Synthe
XX DE195;
XX DE195;
XX DE195;
XX DE195;
YX DE1
Microsatellite markers based on hypervariable genomic fragments, from CC Triticum aestivum (wheat) or the tribe Triticeae, consist of a sequence cc tagged site (STS), defined by 2 specific primers (of mean size 17-23 bases) that flank a microsatellite sequence at both ends, which can be cc amplified to polymorphisms (PCR products of different sizes). The CC microsatellites are n-fold tandem repeats (n = 10 or more) of di-, tri- or tetra-nucleotide sequences, combination microsatellite sequences or an imperfect sequence in which individual bases are mutated. The microsatellite markers can be used for genetic analysis of hexaploid and ctetraploid forms of wheat and for genetic mapping or labelling of compogenic and polygenic properties, and for their selection; for analysing relationships and identifying varieties; and for evaluating cc analysing relationships and identifying varieties; and show a higher cd differentiate between almost all European wheat lines and show a higher can be detected by PCR, so large numbers of samples can be analysed casily (e.g. several hundred per day). Microsatellite marker-related cc polymorphisms are stably inherited so can also serve as genetic markers.

AAT77003-22 and AAT77535-716 are primer pairs that define the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Microsatellite marker; hypervariable genomic fragment; Triticum ae wheat; Triticeae; sequence tagged site; STS; primer; PCR; amplify; polymorphism; genetic analysis; hexaploid; tetraploid; mapping; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 1997-053731/06
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              28-JUN-1995;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (PFLA-) INST PFLANZENGENETIK & KULTURPFLANZENFOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     for STS micro:satellite markers for wheat and related species for genetic mapping, analysis and labelling etc. of wheat.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20
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Pred. No. 9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
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RESULT 1420
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                                                Query Match
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Matches 16
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Best Local S
Matches 16
                                                                                                                     Primer pairs UGT184f (AAT73571) and UGT184r (AAT73572), UGT197f (AAT73573) and UGT197r (AAT73573) and UGT184r (AAT73575) and UGT1r2 (AAT73575) were used to amplify sequence-tagged sites (STS) from Pennisetum genomic DNA. The primers were designed from sequences cloned from a BC3 clonal line K169-46 library. The STS can be used as molecular markers for the identification of Pennisetum apomixis genes. Such genes, esp. from Pennisetum aquamulatum, can be transferred to pearl millet to provide apomictic plants useful as forage or grain cultivars or for development of true- breeding hybrids
                                                                                                                                                                                                                                                                         Transgenic apomictic plants, e.g. pearl millet, expressing Pennisetum squamulatum apomixis gene(s) - useful as forage or grain cultivar(s) to develop true-breeding hybrids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Apomixis gene; true-breeding; pearl millet; molecular marker; probe; hybrid seed; transgenic plant; Pennisetum squamulatum; sequence stagged site; STS; polymerase chain reaction; PCR; primer; ss
                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic
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                                                                                                                                                                                                                                                  Claim 11; Page 39; 87pp; English.
                                                                                                                                                                                                                                                                                                                             WPI; 1997-202528/18
                                                                                                                                                                                                                                                                                                                                                                                                        22-SEP-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                               23-SEP-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Primer UGT1r2
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                       4700 TCCAGCTTCAGTGACACA 4717
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                                                l Similarity
16; Conserv
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                                              0.3%;
nilarity 88.9%;
Conservative
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                                                                                                BP; 3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
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                                                                                                 A; 3 C; 7
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                                                                                                 G; 7 T; 0 U;
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                                                Score 14.8; Di
Pred. No. 9.9e
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 14.8;
Pred. No. 9.
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                                                         14.8; DB 1;
No. 9.9e+02;
                                                                                                   0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    .9e+02
                                                                        DB 1;
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                                                 Indels
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RESULT 1421 AAT48677 ID AAT4867

AAT48677 standard; DNA; 20

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AAQ95648/c
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             libraries prepared from various human tissues; synthesis of CDNA was initiated from the 3'-end of mRNA by using poly(T) as the sole primer. Each library is constructed so as to reflect accurately the relative abundance of different mRNAs in the particular tissue from which it was derived. The appearance frequency of a given GS in a cDNA library can be determined (esp. using primers and probes derived from the GS sequences) as a means of diagnosing abnormal cell function or for recognising different cell types. The primers T41293-4 amplify clone pm2780 which comprises the GS HUMGS000976 (T19976), located on chromosomes 14 and 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Single-stranded DNA for identifying gene signatures - isolated from 3'-directed human cDNA library that reflects relative abundance of corresp. mRNA in specific human tissues.
                                        Kit for automated genotyping contg. pairs of PCR primers - de amplify polymorphic nucleotide repeat sequences, arranged in with a characteristic fluorescence label, useful e.g. in deta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Primers T41001-T41382 are derived from novel human gene signature (GS) sequences which did not match with sequences deposited in Genbank releas. 76. The GS sequences (T19001-T26837) were obtained from 3'-directed cDNA
                                                                                                                                                                                                                                                                                                                                                       primer; polymerase chain reaction;
microsatellite marker sequence; au
                                                                                                                                                                                                                                                                                                                                                                                                                                 15-FEB-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAQ95648;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAQ95648 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 20 BP; 6 A; 4 C; 4 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matsubara K, Okubo
                          disease related genetic rearrangement.
                                                                                                    WPI; 1995-215278/28.
                                                                                                                                                                                         03-DEC-1993;
                                                                                                                                                                                                                        05-DEC-1994;
                                                                                                                                                                                                                                                    08-JUN-1995
                                                                                                                                                                                                                                                                                 WO9515400-A1
                                                                                                                                                                                                                                                                                                                                         polymorphism;
                                                                                                                                                                                                                                                                                                                                                                                                 Primer A (Group 6, set B) for marker D5S413, chromosome 5.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 1995-206931/27.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (MATS/) MATSUBARA K. (OKUB/) OKUBO K.
                                                                                                                                 Levitt
                                                                                                                                                            (UYJO ) UNIV JOHNS HOPKINS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1215 AGGTTATTTGACCAGCAG 1232
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            16;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGGITATTTGTCCACCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                (first
                                                                                                                                                                                                                                                                                                                                        detection; Homo sapiens; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9; 2245pp; Japanese.
                                                                                                                                                                                         93US-00160837
                                                                                                                                                                                                                       94WO-US013945
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 14.8;
Pred. No. 9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                  on; PCR; linkage study; locus; automated genotyping; allele;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 1;
.9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                         detection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0
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Disclosure; Fig 7F-2; 104pp; English

AAT33529-30 are primers used to determine the absence of adenovirus Ela nucleotide sequences in an adenoviral (Adv) vector encoding for the expression of human wild-type p53 protein (AdWTp53). New Adenoviral (Adv vectors comprise: (i) an origin of replication; (ii) a left inverted terminal repeat; (iii) a nucleotide sequence of the AdV genome contg. 2 ClaI sites, one at the 5'-end; and (iv) a homologous recombination domain. Adv vectors which also contain heterologous DNA and regulatory sequences, are used to inhibit cell proliferation (including abnormal vascularisation), esp. to treat human melanoma, breast or lung tumours, sarcoma and carcinoma, including forms resistant to drugs. The vectors are also used to treat subjects at risk of such cancers, and to purge

(AdV)

Adeno:viral vector for gene therapy of cancer or bone marrow purging contains two ClaI restriction sites to increase chance of generating fully cut DNA, thus reducing the parental genomic background.

Example 1; Page 37; 146pp; English.

WPI; 1996-393407/39.

PK,

Cowan K;

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polymorphic, simple sequence repeats and can be used in automated genotyping. esp. fluorescence-based. The primers correspond to the unique DNA sequence surrounding each marker, and PCR is used to detect each polymorphism. When the MMS show considerable polymorphism (ie. a difference in the number of repeats) between individuals, the markers can be particularly informative. The MMS can be ideal for linkage studies. Kits comprise at least 4 groups, of at least 3 sets, each comprising labelled primers for PCR amplification of the DNA. Group 6 primer pairs are shown in AAQ95639-686. The published size range of the DSS413 allele is 264-276 bp, and the degree of heterozygosity in the population is
  Sequence 20 BP; 3 A;
                                                                                                                                                                                                                                                                                                                                                    The method aims to provide a collection of highly reproducible microsatellite marker sequences (MMS) at approx. 10-50 cM intervals throughout the human genome which can be detectably labelled. The M
8 C; 2 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                               The MMS
                                                                                                                                                                                                                                                                                                    the unique
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Query Match
Best Local's
Matches 16
                                          Local Similarity
                1591 TGGAAACAGAGAAGGAGA 1608
20
                                  16;
TGGAGACAGAGAAGGTGA
                                  Conservative
                                          0.3%;
w
                                  0:
                                          Score 14.8;
Pred. No. 9.
                                   Mismatches
                                            9.9e+02;
                                                    DB 1;
                                                    Length
                                   Indels
                                                     20,
                                  0;
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Gaps

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5

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RESULT 1418
AAT33529
ID AAT3352
AC AAT3352
XX AC AAT3352
XX Primer
XX Primer
XX Wild-ty
XX Wo96255
XX WO96255
XX I6-FEB-
XX I6-FEB-
XX I6-FEB-
XX I7-FEB-
XX I7-FEB-
XX PR WPI; 15
XX PR WPI; 15
XX PR Adeno:
PR WPI; 15
XX PT Contair
PR Adeno:
PR ADEno:
PR WPI; 15
XX PT Contair
PR Adeno:

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          primer; polymerase chain reaction; PCR; adenoviral vector; p53; Ela;
wild-type; inhibit; cell proliferation; melanoma; breast tumour; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAT33529;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17-FEB-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22-AUG-1996
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAT33529
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           16-FEB-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO9625507-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Primer for adenovirus Ela nucleotide sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (USSH ) US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DEPT HEALTH & HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
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RESULT 1415
AAQ53120/c
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AC AAQ5312
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AAQ43971/c
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                                                                                                 Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 probes were synthesised based on single point mutations at codon 49. After PCR amplification of nucleic acid samples using specific primer pairs, these probes can be used to detect Gs(alpha) mutations associated with oncogenesis. See AAQ13431-Q13542. (Updated on 25-MAR-2003 to correct PI field.)
                                                                                                                                                            Total mRNA, is extracted from the seeds, leaves and roots of pokeweed and used to prepare cDNA using PCR. The resultant cDNA is used to prepare two DNA fractions, which are introduced into a cloning vector EMBL3 and then into host E.coli PLK-17 (P2) to produce PAP. PAP has a similar activity to ricin, i.e. inhibits protein synthesis. The protein may be obtained all year round by recombinant DNA techniques. PAP can be used partic.
                  AAQ53120
                                                                                                                                     Sequence
                                                                                                                                                                                                                            Disclosure;
                                                                                                                                                                                                                                                                        WPI; 1993-211306/26.
                                                                                                                                                                                                                                                                                                          20-NOV-1991;
                                                                                                                                                                                                                                                                                                                           20-NOV-1991;
                                                                                                                                                                                                                                                                                                                                             01-JUN-1993.
                                                                                                                                                                                                                                                                                                                                                               JP05137580-A.
                                                                                                                                                                                                                                                                                                                                                                                                polymerase
                                                                                                                                                                                                                                                                                                                                                                                                 Pokeroot; ricin; polymerase chain
                                                                                                                                                                                                                                                                                                                                                                                                                          PAP primer (4).
                                                                                                                                                                                                                                                                                                                                                                                                                                              09-NOV-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAQ43971
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 20
                                                                                                                                                                                                                                                                                          (NISB ) JAPAN
                                                                                                                                                                                                                                             pokeweed and to treat
                                                                               1509
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                                                                                                 pal Similarity
16; Conserv
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                                                                       TCTGAGGACAAGTTCTAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 standard; DNA; 20
                                                              TCTGAGAACAAGTTGTAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGGTGCTGAAGAATCTGG
                                                                                                                                     BP; 6 A;
                                                                                                                                                                                                                           Page 13; 14pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BP;
                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                            antiviral protein (PAP) with similar activity t cancer and as an agricultural chemical.
                                                                                                                                                                                                                                                                                          TOBACCO
                                                                                                                                                                                                                                                                                                                                                                                                                                              (first
                                                                                                                                                      and
                                                                                                                                                                                                                                                                                                          91JP-00329672
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                                                                                                                                                                                                                                                                                                                                                                                                 protein synthesis inhibitor; reaction; PCR; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  P
                                                                                                                                                      as
                  DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                             entry)
                                                                                                        0.3%;
                                                                                                                                   4 C; 3 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0.3%;
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                                                                                                                                                                                                                                                                                          INC
                                                                                                                                                     an agricultural chemical
                  20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  G; 6 T; 0
                                                                                                         Score 14.8;
Pred. No. 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 14.8; DB 1; Pred. No. 9.9e+02; ); Mismatches 2
                                                                                                  Mismatches
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                                                                                                         9.9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0 Other;
                                                                                                                  DB 1;
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                                                                                                                 Length 20;
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                                                                                                 Indels
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AAT41294
IID AAT74
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AC AAT4
AC AAT4
AC Huma
XX
W Gene
XX

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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The sequences (AAQ53077-Q53136) are used in the invention to detect specific genes without the use of radio-isotopes. Detection is carried out by hybridisation of denatured (ss) sample DNA with a (ss) nucleic acid probe, complementary to the target sequence. Hybridisation occurs or the surface of an electrode or optical fibre and detection is visualised by the addition of an entity that recognises (ds) hybridised DNA and is electrochemically / photochemically active
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gene signature; messenger RNA; mRNA; relative abundance; frequency; human; cloning; mapping; non-biased library; diagnosis; detection; cell typing; abnormal cell function; primer; PCR; amplification;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Detection method of gene without using radio-isotope - by hybridi of nucleic acid probe which is single strand having complementary sequence of gene and single strand denatured sample DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gene detection; radio-isotopes; target gene; electrode; detection; optical fibre; hybridise; hybridisation; electrochemical; photoche electrolysis; probe; ss.
                                                                                                                                                                                          01-JUN-1995
                                                                                                                                                                                                                                                                                                                                          Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human
                                                                                                                                                                                                                                                                WO9514772-A1
                                                                                                                                                                                                                                                                                                                                                                                                                    polymerase
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAT41294 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 1993-382240/48.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                536 CAACATCACCCGCTCCAA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          signature HUMGS00976-derived anti-sense
                                                                                                                                                                                                                                                                                                                                                                                                                    chain reaction; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              92JP-00242397.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 C; 11 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               26pp; Japanese.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 14.8; DB 1;
Pred. No. 9.9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              hybridisation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    photochemical;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
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12-NOV-1993; 11-NOV-1994;

93JP-00355504 94WO-JP001916

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CC sequence encoding a polypeptide which has an amino accid sequence of a coursesponding to position 715 of the wild-type voltage-gated chloride channel CIC-2, where the glyvine (Gly) residue CC channel CIC-2 comprising a 898 amino acid sequence of SEQ ID NO:2, is constant of the course of the voltage-gated chloride CC channel CIC-2 is encoded by the CLCN2 gene. The voltage-gated chloride CC channel CIC-2 is encoded by the CLCN2 gene. The voltage-gated chloride course comprising (I); (2) a host transformed with the vector of (I) or CC transformed with (I); (3) a method of producing the polypeptide encoded by (I); (4) a polypeptide encoded by (I) produced by the method of (3); (Cl) an antibody specifically reacts with an epitope generated and/or formed CC by the mutation in the voltage-gated chloride channel CIC-2; (6) an antibody specifically reacts with an epitope generated and/or formed CC aptamer specifically binding to (I) or to the polypeptide of (4); where cC the antibody of (5), the aptamer of (6) and the polypeptide of (4); (7) a CC composition comprising (I), the vector of (I), the polypeptide of (4); (7) a CC composition comprising (I); (II) a method of treating a neurological disease or a composition comprising (I); (II) a method of treating an envirological composition comprising (I); (II) a method of treating an envirological composition for molecules capable of specifically and the primer or pair of primers of (3); the aptamer of (5), the aptamer of (6) and the primer or pair of primers of (7); (1) a method of treating an envirological composition of the comprising (I); (II) a method of treating an envirological composition for molecules capable of specifically interacting with the composition of the composition (I); and the polypeptide of (4); the antibody of (5), the aptamer of (6) and the primers of (6) and the pr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADQ27097 standard; DNA; 19 BP
                                                                                                                                                                                                                WO2004048566-A1
                                                                                                                                                                                                                                                                  Unidentified.
                                                                                                                                                                                                                                                                                                                          cytotoxicity
                                                                                                                                                                                                                                                                                                                                                                                                   RNA interference target sequence #5
                                                                                                                                                                                                                                                                                                                                                                                                                                                          26-AUG-2004
                                                  22-NOV-2002; 2002JP-00340053
                                                                                                         21-NOV-2003; 2003WO-JP014893
                                                                                                                                                                                                                                                                                                                                                ss; detection;
  (NATO/) NATORI Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3756 CTGCGCTCCTTCACGTGC 3773
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTGCGCTCCTGCATGTGC 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BP; 6 A; 5 C; 7 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                              RNA interference; siRNA; gene silencing; gene expression;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 14.8;
Pred. No. 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 19;
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RESULT 1413
AAQ13434
ID AAQ1343
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      interference by detecting the regions in the DNA sequence fulfilling the following requirements such as: (i) the base at 3' terminal is adenine, thymine or uracil], (ii) the base at 5' terminal is guanine or cytosine; (iii) the seven base sequence at 3' terminal is rich in adenine, thymine and uracil, and; (iv) there are bases in a such a number that it causes RNA interference without showing cytotoxicity. The method is used for designing and synthesizing sirNA causing RNA interference. This sequence corresponds to an RNA interference target sequence of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Detecting sequence of RNA interference useful for synthesizing siRNA, detecting regions in sequence fulfilling specific criteria such as bar at 3' terminal is adenine, thymine or uracil, base at 5' terminal is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 19 BP; 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        guanine or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2004-487423/46.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Saigo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (SAIG/)
(TEIK/)
(NAIT/)
                                                                                                                                                                                                                                                                                                  Gs(alpha)-49;
                                                                                                                                                                                                                                                                                                                          Probe to mutant codon 49 (GAA)
                                                                                                                                                                                                                                                                                                                                                  25-MAR-2003
05-NOV-1991
                                                                                                                                                                                                                                                                                                                                                                                     AAQ13434;
                                                                                                                                                                                                                                                                                                                                                                                                             AAQ13434 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to a method of detecting the base sequence for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure; SEQ ID NO 19; 325pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2311 CCATCATCCAAAAAATCA 2328
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NAITO Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CAATCATCCAAAAAATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Tei K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cytosine.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                (revised)
(first entry)
                                                                                                                                                                                                                                                                                                  point mutation; oncogenesis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Naito
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A; 5 C; 0 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 88.9%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 14.8; DB 1;
Pred. No. 9.2e+02;
0; Mismatches 2;
                                                                                                                                                                                                                                                                                                                          of G-protein alpha subunit.
                                                                                                                                                                                                                                                                                                   PCR; tumour; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
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Method for detection of point mutation(s) in nucleic acid segments where segments encode GTP binding protein or sub-unit and method is amplification followed by sequence-specific probe hybridisation. 07-FEB-1990; Synthetic. WPI; 1991-267154/36. 07-FEB-1990; 22-AUG-1991 WO9112343-A Mccormick FP, (CETU) CETUS CORP. Lyons 9008-00477260 90US-00477260 ĮĘ, involves

Claim 18;

Page 65;

69pp; English.

This probe corresponds to a mutant version of codon 49 (wild-type = GG) Arg). This codon is a potentially oncogenic site and a group of mutant

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RESULT 1410
ADM94738/c
ID ADM9473
XX ADM9473
XX ADM9473
XX O1-JUL-
XX Human h
XX heat sh
KW heat sh
KW short i
XX Synthet
XX WO2004(
XX WO2004(
XX PD 15-APR-
XX N2-OCT-
PR 18-APR-
XX X
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Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to a method for estimating the therapeutic effect of interferon in the treatment of cancer or viral disease. The method involves determining the amount of expression of an interferon-associated gene in cancer cells or virus-infected cells. The invention also relates to drug compositions for the treatment of cancer and viral diseases containing interferon-alpha together with a cyclooxygenase-2 (cox-2) inhibitor such as indomethacin which potentiates the apoptosis induction effect of the interferon. The method and compositions of the invention are useful in the treatment and prevention of cancers (e.g., cancer of the colon, lung, pancreas, breast, stomach, liver, kidney, nerve cell, skin, muscle, uterus and throat) and viral infections (e.g., hepatitis B and C). The present sequence represents a PCR primer used in real-time PCR to determine the amount of expresents a PCR primer used in real-time presents and contained in the presents of interferon-associated gene in cancer cells cultured in the presence of interferon-alpha.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  for estimating the therapeutic effect of viral disease.
                    02-OCT-2002; 2002US-0415859P.
18-APR-2003; 2003US-0463952P.
                                                                                                                                                                                                              heat shock protein 27; hsp27; cytostatic; gene therapy; heat shock protein 27 inhibitor; hsp27 inhibitor; cancer; human; short interfering RNA; siRNA; RNA interference; RNAi; ds.
                                                                  02-OCT-2003; 2003WO-CA001588
                                                                                                                                    WO2004030660-A2
                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                Human heat shock protein 27 siRNA oligonucleotide
                                                                                                                                                                                                                                                                                                                  01-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                               ADM94738 standard; DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2004-108824/11.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Yanai Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         03-JUL-2002; 2002JP-00195147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        30-JUN-2003; 2003WO-JP008296
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           15-JAN-2004.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4119
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AACGGCGTGAAGCCACTG 4136
                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAAGGCGTGGAGCCACTG 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Yamamoto S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BP; 2 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              7 C; 4 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Yamamoto K, Yamauchi H;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 14.8;
Pred. No. 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9.2e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cancer or virus-infected cells an interferon in cancer and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                SEQ
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RESULT 1411 · ADN74903/c ID ADN74903
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Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present invention describes a composition which comprises a therapeutic agent that reduces the amount of active heat shock protein 27 (hsp27) in hsp27 expressing cells exposed to the therapeutic agent. The composition has cytostatic activity, and can be used in gene therapy. The composition is useful in treating cancer, e.g., prostate, bladder, lung, breast, pancreatic, colon, skin (for example melanoma), renal or ovarian cancer or a central nervous system mallignancy. The present sequence represents a human hsp27 short interfering RNA (siRNA) oligonucleotide which is used in the exemplification of the present invention.
                                                                                                                                                                                          30-OCT-2003; 2003WO-EP012086
                                                                                                                                                                                                                                                                      Synthetic.
                                                                                                                                                                                                                                                                                                          grand
                                                                                                                Heils
                                                                                                                                                                  30-OCT-2002;
                                                                                                                                                                                                                                             WO2004039979-A1
                                                                                                                                                                                                                                                                                  Homo sapiens
                                                                                                                                                                                                                                                                                                                      juvenile absence epilepsy; juvenile myoclonic epilepsy;
                                                                                                                                                                                                                                                                                                                                                                                     Human CLCN2 gene G175E identification PCR primer SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                29-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                          ADN74903;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADN74903 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 19 BP;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New composition comprising a therapeutic agent that reduces the amount o active hsp27 in hsp27 expressing cells exposed to the therapeutic agent,
                                                                                                                                                                                                                   13-MAY-2004.
                                                                                                                                                                                                                                                                                                                                neurological disease; neuroprotective; anticonvulsant; idiopathic generalised epilepsy; childhood absence epilepsy;
                                                                                                                                                                                                                                                                                                                                                            voltage-gated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 10; SEQ ID NO 88; 38pp; English
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                                                                                                                                        (RHEI-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1592 GGAAACAGAGAAGGAGAA 1609
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                                                                                                                                                                                                                                                                                                            mal seizure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  malignancy.
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                                                                                                                                        RHEINISCHE FRIEDRICH-WILHELMS-UNIV BONN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GGAGACAGGGAAGGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                treating cancer, e.g., prostate cancer or a central nervous
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                  2002US-0422102P
                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                             chloride channel; CIC-2; CLCN2; human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0 A; 9 C; 2
                                                                                                                                                                                                                                                                                                            PCR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   19
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                                                                                                                                                                                                                                                                                                          primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ВP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    G; 0 T; 8 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 14.8; DB 1
Pred. No. 9.2e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                               chromosome
                                                                                                                                                                                                                                                                                                                                                                                       ID NO:16
                                                                                                                                                                                                                                                                                                                        epilepsy;
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The
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New voltage-gated chloride channel CIC-2 polynucleotides and polypeptides, useful in diagnosing and treating a neurological disease disorder such as idiopathic generalized epilepsy.

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WPI;

2004-390325/36.

Claim 19;

SEQ

ID NO

16;

124pp;

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Query Match
Best Local S
Matches 16
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11-MAR-2002;
06-JUN-2002;
                                                                                                                                                                                                                                                                                                           deoxyribonucleotides, and can be chemically synthesised, expressed from a vector or enzymatically synthesised. The invention also relates to kits for the in vitro or in vivo delivery of siNA; conjugates and/or complexes of siNA; and vectors that express siNA. The siNAs are used to modulate expression of the TGFb-R gene in cells, tissue explants or organisms (e.g., by ex vivo gene therapy), or in grafts and transplants for the treatment of a variety of conditions. They may be used for treating diabetic nephropathy, chronic liver disease or pulmonary fibrosis. The siNAs are also useful for drug screening, diagnosis, therapeutic target identification and validation, genetic engineering, pharmacogenomics, studying gene function, and gene mapping (e.g., of single nucleotide polymorphisms). The present sequence represents the upper strand of a human TGFb-R-targeted double-stranded siNA, which is identical to the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to short interfering nucleic acids (siNA) which downregulate expression of the human transforming growth factor beta (TGFb) receptor (TGFb-R) gene by RNA interference. The siNAs may or may not comprise ribonucleotides and may be double or single stranded. They further comprise sense and antisense regions, or alternatively are assembled from a sense oligonucleotide and an antisense oligonucleotide. Specifically, the siNAs include short interfering RNA (siRNA), double-stranded RNA, micro-RNA (miRNA) and short hairpin RNA (shRNA). The siNAs can be unmodified or chemically modified, can contain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New short interfering nucleic acid, useful e.g. for treatment and diagnosis of diabetic nephropathy, which downregulates expression of transforming growth factor-beta receptor gene.
                                                                                                                                                                                                                                   Sequence 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 pharmacogenomics; gene function analysis; gene mapping; human;
antidiabetic; nephrotropic; hepatotropic; cytostatic;
transforming growth factor beta receptor; TGFb; TGFb-R;
diabetic nephropathy; chronic liver disease; pulmonary fibrosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    09-SEP-2002;
12-NOV-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               29-AUG-2002;
05-SEP-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11-FEB-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             28-AUG-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WO2003070197-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     short hairpin RNA; shRNA; expression modulation; gene therapy; drug screening; diagnosis; therapeutic target identification;
                                                                                                                                                                                                                                                                                            IGFb-R transcript target sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (RIBO-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     target sequence; ss.
                                                        3923
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2003-697557/66.
19
                                                                                                                   16;
                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RIBOZYME PHARM INC
                                                     eccececcecceccec 3940
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQ ID NO 8; 137pp; English.
                                                                                                                                                                                                                                   BP; 0
                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2002US-0406784P.
2002US-0408378P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2003WO-US007273
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2002US-0409293P.
2002US-0425559P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2002US-0363124P.
2002US-0386782P.
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                                                                                                                                                                                                                                   ₽,
                                                                                                                                         0.3%;
                                                                                                                                                                                                                                   7 C;
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                                                                                                                                                                                                                                   12 G; 0 T; 0 U; 0 Other;
                                                                                                             <u>;</u>
                                                                                                                                            Pred.
                                                                                                                                                                     Score
                                                                                                                   Mismatches
                                                                                                                                            14.8;
No. 9
                                                                                                                                         2e+02
                                                                                                                                                                        DB 1;
                                                                                                                                                                     Length 19;
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BARRAS BA

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RESULT 1408

Homo gapiens

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ADW82161/c
ID ADW821
XX ADM821
XX ADM821
XX Goldfi
XX Fevers
XX CN1401
XX CN1401
XX CN1401
XX Fevers
XX Hydr
PD 12-SEE
XX Hydr
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CC ADM8:
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CC ADM8:
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RESULT 1409
ADH75212/c
ID ADH7521
XX ADH7521
XX ADH7521
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XX Interfe
KW cancer
KW breast
KW cancer
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OS Homo se
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Best Local
                                                                                      cancer cell; is
                                                                                                                                                               apoptosis induction; colon cancer; lung cancer; pancreas cabeast cancer; stomach cancer; liver cancer; kidney cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 19 BP; 6 A; 6 C; 3 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gene sequence and use of fish testicle development factor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADM82161 standard;
                                                                                                                                     nerve cell cancer; skin cancer; muscle cancer; uterus cancer;
                                                                                                                                                                                                                                                Interferon therapy; cancer; viral disease; viral infection;
                                                                                                                                                                                                                                                                                                                                                                    22-APR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                           ADH75212;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADH75212 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Japanese eel 28kDa-le apolipoprotein (GenBank accession number BAB4096)
Tdf2 plays an important role in sex differentiation, male gonad
development and in the regulation of reproduction. Sequences ADM82161-
ADM82162 represent goldfish Tdf2 reverse transcription-PCR (RT-PCR)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to a goldfish testis development factor, Tdf2 (ADM82158) and cDNA encoding it (ADM82157). Tdf2 has homology with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2003-469309/45.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CN1401657-A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Goldfish; testis development
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Goldfish testis development factor Tdf2 RT-PCR primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               03-JUN-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           primers used in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  12-SEP-2002; 2002CN-00139034.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      12-SEP-2002; 2002CN-00139034
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             reverse transcription-PCR; RT-PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28kDa-le apolipoprotein homologue; male gonad development; reproducti
                                                                                                                                                                                                                            interferon-alpha;
                                                                                                                                                                                                                                                                                                          IFN-associated gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (HYDR-) INST HYDROBIOLOGY CHINESE ACAD SCI.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5027
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      16;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Liu J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               reseccicirestrocas 5044
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Page 9; 11pp; Chinese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                    c; hepatitis B; hepatitis C;
interferon-associated gene;
                                                                                                                                                                                                                                                                                                                                                                    (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           an
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                                                                                                                                                                                                                            IFN-alpha; cyclooxygenase-2 inhibitor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     example of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DNA;
                                                                                                                                                                                                                                                                                                             IFNAR1 PCR primer, SEQ ID NO:1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   88.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           N
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 14.8;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       sex differentiation,
                                                                                                                                                                                                     lung cancer; pancreas cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8; L-
. 9.2e+02;
2;
                                                                                         cytostatic; virucide IFNAR1; real-time PC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                            Cox-2 inhibitor;
                                                                                         PCR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <u>..</u>
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                                                                                      primer;
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The invention relates to short interfering nucleic acids (SiNA) which CC downregulate expression of the human tumour necrosis factor (TNF) CC receptor gene by RNA interference. The siNAs may not comprise CC ribonucleotides and may be double or single stranded. They further CC asense oligonucleotide and antisense regions, or alternatively are assembled from CC asense oligonucleotide and an antisense oligonucleotide. Specifically, CC unmodified or chemically modified, can contain deoxyribonucleotides, and CC can be chemically synthesised, expressed from a vector or enzymatically synthesised. The invention also relates to kits for the in vitro or in CC vivo delivery of siNA; conjugates and/or complexes of siNA; and vectors that express siNA. The siNAs are used to modulate expression of the TNF receptor gene in cells, tissue explants or organisms (e.g., by ex vivo gene therapy), or in grafts and transplants for the treatment of a CC variety of conditions. The TNF receptor siNAs have antibacterial, CC and antihlammatory activities. They may be used for treating septic conditions, therapeutic target identification and validation, genetic Shock, rheumatoid arthritis, HIV/AIDS, psoriasis, inflammation and cautoimmune diseases. The siNAs are also useful for drug screening, CC diagnosis, therapeutic target identification and validation, genetic engineering, pharmacogenomics, studying gene function, and gene mapping (e.g., of single nucleotide polymorphisms). The present sequence of a transpland siNA
                                                                                                                                                                                                                                                                                                                          RESULT 1406
ADJ66298
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local
                                                            pharmacogenomics; gene function analysis; gene mapping; human; antidiabetic; nephrotropic; hepatotropic; cytostatic; transforming growth factor beta receptor; TGFb; TGFb-R;
                                                                                                             RNA interference; short interfering nucleic acid; siNA; short interfering RNA; siRNA; double-stranded RNA; micro-RNA; miRNA; short hairpin RNA; shRNA; expression modulation; gene therapy; drug screening; diagnosis; therapeutic target identification;
                                               grabetic
                                                                                                                                                                                                                                     06-MAY-2004
                                                                                                                                                                                                                                                                                                        ADJ66298 standard; RNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New short interfering nucleic acid, useful e.g. for treatment and diagnosis of septic shock or rheumatoid arthritis, downregulates
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 3; SEQ ID NO 364; 141pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        28-NOV-2002;
15-JAN-2003;
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                                                                                                                                                                                                                                                                                                                                                                                                                             2831
                                                                                                                                                                                                    TGFb-R sinA lower
                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 Similarity
                                                                                                                                                                                                                                                                                                                                                                                               N
                                                                                                                                                                                                                                                                                                                                                                                                                  GGAGCTGGTGGTGAAGTT
                                             nephropathy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SINA.
                                                                                                                                                                                                                                                                                                                                                                                           GGAGCUGGAGGUGAAGGU
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              of the tumor necrosis factor gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.3%;
ilarity 72.2%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2002US-0429359P.
2003US-0440129P.
                                                                                                                                                                                                                                   (first entry)
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                                                                                                                                                                                                    strand,
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Pred. No. 9.2e
3; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1; Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Other;
                                             pulmonary fibrosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             'n
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                           0
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(first entry)

RNA interference; short interfering

Human TGFb-R 06-MAY-2004 ADJ66170

transcript target sequence/siNA upper strand,

OI Das

NO:8.

short interfering nucleic acid; siNA; RNA; siRNA; double-stranded RNA; micr

micro-RNA; miRNA;

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3923

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18 3940 0

Query Match Best Local S Matches 16

Local of

Similarity

0.3%;

Score 14.8; DB 1; Pred. No. 9.2e+02; Mismatches

1;

Length 19; Indels

0

Gaps

0

Conservative

RESULT 1407

ADJ66170 standard; RNA; 19

BP.

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further comprise sense and antisense regions, or alternatively are casembled from a sense oligonucleotide and an antisense oligonucleotide. Specifically, the siNAs include short interfering RNA (siRNA), double-stranded RNA, micro-RNA (miRNA) and short hairpin RNA (siRNA). The siNAs cc can be unmodified or chemically modified, can contain deoxyribonucleotides, and can be chemically synthesised, expressed from a vector or enzymatically synthesised. The invention also relates to kits for the in vitro or in vivo delivery of siNA, conjugates and/or complexes of siNA; and vectors that express siNA. The siNAs are used to modulate expression of the TGFD-R gene in cells, tissue explants or organisms (e.g., by ex vivo gene therapy), or in grafts and transplants for the treatment of a variety of conditions. They may be used for treating clabetic nephropathy, chronic liver disease or pulmonary fibrosis. The siNAs are also useful for drug screening, diagnosis, therapeutic target identification and validation, genetic engineering, pharmacogenomics, studying gene function, and gene mapping (e.g., of single nucleotide polymorphisms). The present sequence represents the lower strand of a human TGFb-R-targeted double-stranded siNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11-MAR-2002;
06-JUN-2002;
06-JUN-2002;
29-AUG-2002;
05-SEP-2002;
09-SEP-2002;
Sequence 19
                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to short interfering nucleic acids (siNA) which downregulate expression of the human transforming growth factor beta (TGFb) receptor (TGFb-R) gene by RNA interference. The siNAs may or may not comprise ribonucleotides and may be double or single stranded. They
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New short interfering nucleic acid, useful e.g. for treatment and diagnosis of diabetic nephropathy, which downregulates expression transforming growth factor-beta receptor gene.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mcswiggen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11-FEB-2003; 2003WO-US007273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO2003070197-A2.
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15-JAN-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20-FEB-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28-AUG-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2003-697557/66.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQ ID NO 136; 137pp; English.
  B₽;
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2002US-0408378P.
2002US-0409293P.
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2003US-0440129P.
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2002US-0386782P.
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  P
  12 C; 7 G; 0 T; 0 U; 0 Other;
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of the

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RESULT 1404
ADG34889/c
ID ADG3488
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Best Local S
Matches 16
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11-MAR-2002; 2002US-0363124P.
06-JUN-2002; 2002US-0386782P.
29-AUG-2002; 2002US-0406784P.
05-SEP-2002; 2002US-0409378P.
09-SEP-2002; 2002US-0409293P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to a novel double-stranded short interfering nucleic acid (siNA) that downregulates expression of the breakpoint cluster region-v-abl Abelson murine leukaemia viral oncogene homelogue 1 (BCR-ABL) gene. The siRNA of the invention demonstrates cytostatic activity and may be useful for modulating expression of the BCR-ABL gene, as well as for treating leukaemia or lymphoma and in diagnosis, drug screening, target identification and validation, genetic engineering, gene function studies and gene mapping. The current sequence is that of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              pharmacogenomics; gene function analysis; gene mapping; tumour necrosis factor receptor; TNF receptor; human; DNA-RNA hybrid; ss; tumour necrosis factor receptor; TNF receptor; human; DNA-RNA hybrid; ss; antibacterial; immunosuppressive; antirheumatic; antiarthritis; antipporiatic; antiinflammatory; septic shock; rheumatoid arthritis; HIV/AIDS; psoriasis; inflammation; autoimmune disease; target sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RNA interference; short interfering nucleic acid; siNA; short interfering RNA; siRNA; double-stranded RNA; micro-RNA; miRNA; short hairpin RNA; shRNA; expression modulation; gene therapy; drug screening; diagnosis; therapeutic target identification;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 19 BP; 1 A; 7 C; 5 G; 0 T; 6 U; 0 Other;
                                                            New short interfering nucleic acid, useful e.g. for diagnosis of septic shock or rheumatoid arthritis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human TNF receptor sinh oligonucleotide SEQ ID NO:241.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     26-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADG34889
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADG34889 standard; RNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      the human ABL1-targeted siRNA of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 7;
                                              expression
                                                                                                                                             Mcswiggen
                                                                                                                                                                                                                                                                                                                                                                  20-FEB-2003; 2003WO-US004741.
                                                                                                                                                                                                                                                                                                                                                                                                   28-AUG-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1790 CTCCAAGGGGCAGGGAAA 1807
                                                                                                                2003-697609/66.
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                                                                                                                                                                              RIBOZYME PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Similarity
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                                                of the
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                                                                                                                                                                                                                                2002US-0429359P
                                                                                                                                                                                                               2003US-0440129P
                                                                                                                                             Beigelman L;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ij
                                              tumor necrosis factor gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NO 958; 197pp; English.
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                                                                               for treatment
                                                            downregulates
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
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Cribonucleotides and may be double or single stranded. They further CC comprise sense and antisense regions, or alternatively are assembled from CC a sense oligonucleotide and an antisense oligonucleotide. Specifically, CC the sinAs include short interfering RNA (siRNA), double-stranded RNA, CC micro-RNA (miRNA) and short hairpin RNA (siRNA). The siNAs can be CC unmodified or chemically modified, can contain deoxyribonucleotides, and CC can be chemically synthesised, expressed from a vector or enzymatically conjugates and/or complexes of siNA; and vectors that express siNA. The siNAs are used to modulate expression of the TNF receptor gene in cells, tissue explants or organisms (e.g., by ex vivo gene therapy), or in grafts and transplants for the treatment of a CC wariety of conditions. The TNF receptor siNAs have antibacterial, CC immunosuppressive, antitheumatic, antiarthritic, anti-HIV, antipsoriatic cand antiinflammatory activities. They may be used for treating septic complexes, therapeutic target identification and validation, genetic cengineering, pharmacogenomics, studying gene function, and gene mapping CC engineering, pharmacogenomics, studying gene function, and gene mapping CC engineering, which is identical to the TNF receptor transcript target could be accompleted siNA, which is identical to the TNF receptor transcript target
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to short interfering nucleic acids (siNA) which downregulate expression of the human tumour necrosis factor (TNF) receptor gene by RNA interference. The siNAs may or may not comprise
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Query Match Best Local Similarity Sequence 19 BP; 4 A; 10 C; 1 G; 0 T; 4 U; 0 Other; 88.9%; 0.3%; Score 14.8; Pred. No. 9 9.2e+02 DB 1; Length 19;

á 밁 2831 18 GGAGCTGGAGGTGAAGGT GGAGCTGGTGGTGAAGTT 2848

Matches

16;

Conservative

0,

Mismatches

2

Indels

<u>,</u>

Gaps

0

RESULT 1405 ADG35012

ADG35012 standard; RNA; 19

ADG35012;

26-FEB-2004 (first entry)

Human TNF receptor siNA oligonucleotide SEQ ID NO:364.

short interfering RNA; siRNA; double-stranded RNA; micro-RNA; miRNA; short hairpin RNA; shRNA; expression modulation; gene therapy; drug screening; diagnosis; therapeutic target identification; pharmacogenomics; gene function analysis; gene mapping; thumour necrosis factor receptor; TNF receptor; human; DNA-RNA hybrid antibacterial; immunosuppressive; antirheumatic; antiarthritic; antiantipsoriatic; antiinflammatory; septic shock; rheumatoid arthritis; RNA interference; short interfering nucleic acid; siNA; HIV/AIDS; psoriasis; inflammation; autoimmune disease DNA-RNA hybrid; ss; anti-HIV;

Synthetic.

Homo sapiens.

WO2003070897-A2 28-AUG-2003

20-FEB-2003; 2003WO-US004741.

11-MAR-2002; 06-JUN-2002; 2002US-0358580P. 2002US-0363124P. 2002US-0386782P. 2002US-0406784P. 2002US-0408378P. 2002US-0408378P.

29-AUG-2002; 05-SEP-2002; 09-SEP-2002;

Example 3; SEQ ID ĕ 241; 141pp; English

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ADF84345
IID ADF8
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XX ADF8
XX ADF8
XX Show
XX Show
XX Cytic

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  В
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Best Local
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11-MAR-2002;
06-JUN-2002;
15-AUG-2002;
29-AUG-2002;
05-SEP-2002;
09-SEP-2002;
                                                                               09-SEP-2002;
14-JAN-2003;
15-JAN-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       short interfering nucleic acid; siNA; breakpoint cluster region; v-abl Abelson murine leukaemia viral oncogene homologue 1; BCR-A cytostatic; leukaemia; lymphoma; human; ss; siRNA; ABL1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human ABL1-targeted siRNA - SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      26-FEB-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADF84345;
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                                                                                                                                                                                                                                                                                                                                                 20-FEB-2003;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ä
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                              (RIBO-)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                907 TGACTGCCAGCTCCTGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       . 16;
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                              RIBOZYME
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 standard;
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                                                                          2002US-0358580P.
2002US-0363124P.
2002US-0386782P.
2002US-0404039P.
2002US-0406784P.
2002US-0408378P.
2002US-0409293P.
2003US-0439922P.
2003US-0440129P.
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                              PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; 8 C; 4 G; 2 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0.3%;
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Pred. No. 9.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    639.
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ches 2;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
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RESULT 1403
ADF84664/c
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Best Local Similarity
Matches 15; Conserv
                                                                                                                                 20-FEB-2002; 2002US-0358580P.
11-MAR-2002; 2002US-0363124P.
06-JUN-2002; 2002US-0366782P.
15-AUG-2002; 2002US-0404039P.
29-AUG-2002; 2002US-0406784P.
05-SEP-2002; 2002US-0409923P.
09-SEP-2002; 2002US-0409293P.
14-JAN-2003; 2003US-0439922P.
                                                                                                                                                                                                                                                                                                                                                              short interfering nucleic acid; siNA; breakpoint cluster region; v-abl Abelson murine leukaemia viral oncogene homologue 1; BCR-ABL; cytostatic; leukaemia; lymphoma; human; ss; siRNA; ABLl.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        nucleic acid (sinh) that downregulates expression of the breakpoint cluster region-v-abl Abelson murine leukaemia viral oncogene homologue 1 (BCR-ABL) gene. The sinkh of the invention demonstrates cytostatic activity and may be useful for modulating expression of the BCR-ABL gene, as well as for treating leukaemia or lymphoma and in diagnosis, drug screening, target identification and validation, genetic engineering, gene function studies and gene mapping. The current sequence is that of the human ABL1-targeted siRNA of the invention.
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and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 19
                                                                                                                                                                                                                                                              20-FEB-2003; 2003WO-US005234
                                                                                                                                                                                                                                                                                      28-AUG-2003.
                                                                                                                                                                                                                                                                                                               WO2003070972-A2
                                                                                                                                                                                                                                                                                                                                        Homo
                                                                                                                                                                                                                                                                                                                                                                                                              Human ABL1-targeted siRNA -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADF84664;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADF84664 standard; RNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to a novel double-stranded short nucleic acid (siNA) that downregulates expression of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mcswiggen J,
                                                                                                              (RIBO-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               double-stranded interfering nucleic acid, useful e.g. diagnosis of leukemia and lymphoma, downregulates the ster region-Abelson (BCR-ABL) gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1790
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                                                                                                              RIBOZYME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CTCCAAGGGGCAGGGAAA 1807
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                                                                                    Beigelman
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                                                                                                              PHARM
                                                                                                                                                                                                                                                                                                                                                                                                                                         entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.3%;
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                                                                                                              INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 14.8; DB 1;
Pred. No. 9.2e+02;
1; Mismatches 2
                                                                                                                                                                                                                                                                                                                                                                                                                SEQ ID 958.
                                                                                     Chowrira
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New double-stranded interfering nucleic acid, useful e.g. and diagnosis of leukemia and lymphoma, downregulates the cluster region-Abelson (BCR-ABL) gene.

breakpoint for treatment

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              antiasthmatic, immunosuppressive, antibacterial, antirheumatic, antiprocessive, antipacterial, antirheumatic, antiprocession of maps activities. The MAPK sinks can be used to modulate the expression of MAPK genes, in cells, tissue explants or organisms, e.g. for treating obesity; diabetes types I and II; a wide range of tumours, and inflammatory diseases (asthma, septic shock, rheumatoid arthritis, psoriasis and inflammatory bowel disease). They can also be used for drug screening; diagnosis; target identification and validation; genetic engineering; pharmacogenomics; studying gene function and gene mapping (e.g. of single-nucleotide polymorphisms). The present sequence represents a MAPK sink which is used in the exemplification of the present invention.
                                                                                                                                                                                                                                  short interfering nucleic acid; siNA; downregulation; inhibition; mitogen-activated protein kinase; MAP kinase; MAPK; RNA interference; cytostatic; anorectic; antidiabetic; antiinflammatory; antiasthmatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 05-SEP-2002; 2002US-0408378P.
09-SEP-2002; 2002US-0409293P.
15-JAN-2003; 2003US-0440129P.
                                    04-SEP-2003
                                                                                                                                                                                                                                                                                                                                                                                                                         ADE30196 standard; RNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     delivery of siNA; (3) conjugates and/or complexes of siNA; and (4) vectors that express siNA and cells containing these vectors. MAPK siNAs have cytostatic, anorectic, antidiabetic, antiinflammatory,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2003-689980/65.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mcswiggen J, Beigelman L,
28-JAN-2003; 2003WO-US002510.
                                                                        WO2003072590-A1
                                                                                                                                                                                                                                                                                                          Mitogen activated protein kinase siNA oligonucleotide SEQ ID NO:818
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               organisms
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                modulating expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention describes a short interfering nucleic acid (siNA)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 3; SEQ ID NO 1027; 164pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              protein kinase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New short interfering nucleic acid, useful e.g. i
                                                                                                                                           genetic engineering;
                                                                                                                                                         immunosuppressive; antibacterial; antirheumatic; antiarthritic; antipsoriatic; gastrointestinal; obesity; diabetes; tumour; inflammatory disease; asthma; septic shock; rheumatoid arthritis; psoriasis; inflammatory bowel disease; drug screening;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (SIRN-) SIRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 downregulates expression of a mitogen-activated protein kinas (K) genes by RNA interference. Also described: (1) a method for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCTCTCTTTCTCTCTCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TCTCTCTTTCTCCCTCAC 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g expression of MAPK genes in cells, tissue explants or by introduction of siNA; (2) kits for in vitro or in vivo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BP; 8 A; 1 C; 9 G; 0 T; 1 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                   (first entry)
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                                                                                                                                             pharmacogenomic;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        290
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 14.8; DB 1;
Pred. No. 9.2e+02;
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                                                                                                                                           mapping;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                for treatment and f mitogen-activated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 19;
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RESULT 1401 ADF87834/c ID ADF8783

ADF87834 standard; DNA; 19

ADF87834;

26-FEB-2004

(first entry)

밁 S

273 N

rerererrererere 290 UCUCUCUUUCUCCCUCAC 19

Conservative

8;

Mismatches

0,

Gaps

0

Synthetic. human; single primer; PCR.

iomo sapiens.

Single nucleotide polymorphism detection primer, SEQ ID No 1417.

nucleotide polymorphism; microarray; side effect; ss;

JP2003235571-A

26-AUG-2003

12-FEB-2002; 2002JP-00034717.

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Query Match
Best Local Similarity
Matches 8; Conserv
                                                                                                      antiasthmatic, immunosuppressive, antibacterial, antirheumatic, antipscriatic and gastrointestinal activities. The MAPK siNAs can be used to modulate the expression of MAPK genes, in cells, tissue explants or organisms, e.g. for treating obesity; diabetes types I and II, a wide range of tumours, and inflammatory diseases (asthma, septic shock, rheumatoid arthritis, psoriasis and inflammatory bowel disease). They can also be used for drug screening; diagnosis; target identification and validation; genetic engineering; pharmacogenomics; studying gene function and gene mapping (e.g. of single-nucleotide polymorphisms). The present sequence represents a MAPK siNA which is used in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20-FEB-2002;
11-MAR-2002;
06-JUN-2002;
29-AUG-2002;
05-SEP-2002;
09-SEP-2002;
                                                                                                                                                                                                                                                                                                                                    The present invention describes a short interfering nucleic acid (siNA) that downregulates expression of a mitogen-activated protein kinase (MAPK) genes by RNA interference. Also described: (1) a method for modulating expression of MAPK genes in cells, tissue explants or organisms by introduction of siNA; (2) kits for in vitro or in vivo delivery of siNA; (3) conjugates and/or complexes of siNA; and (4) vectors that express siNA and cells containing these vectors. MAPK siNAs between the containing these vectors.
                                                                           Sequence 19 BP; 1 A; 9 C; 1 G; 0 T; 8 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   protein kinase genes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New short interfering nucleic acid, useful e.g. diagnosis of cancer, downregulates expression of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2003-689980/65.
                                                                                                                                                                                                                                                                                                                        have cytostatic, anorectic, antidiabetic, antiinflammatory,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15-JAN-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (SIRN-) SIRNA THERAPEUTICS INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ ID NO 818; 164pp; English
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2002US-0363124P.
2002US-0386782P.
2002US-0406784P.
2002US-0408378P.
2002US-0409293P.
2003US-0440129P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Beigelman
                     44.48;
                                     0.3%;
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                   Score 14.8;
Pred. No. 9.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Haeberli
                     9.2e+02
                                     DB 1;

    for treatment and
of mitogen-activated

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                                     Length
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      that downregulates expression of a mitogen-activated protein kinase (MAPK) genes by RNA interference. Also described: (1) a method for modulating expression of MAPK genes in cells, tissue explants or conganisms by introduction of siNA; (2) kits for in vitro or in vivo (2) delivery of siNA; (3) conjugates and/or complexes of siNA; and (4) (4) (5) vectors that express siNA and cells containing these vectors. MAPK siNAs (6) have cytostatic, anorectic, antidiabetic, antiinflammatory, antiarthratic, immunosuppressive, antibacterial, antirheumatic, antipsoriatic and gastrointestial, antirheumatic, containing these vectors. MAPK siNAs (7) siNAs can be used to modulate the expression of MAPK genes, in cells, (8) crissue explants or organisms, e.g. for treating obesity; diabetes types in crist of timeours, and inflammatory diseases (asthma, 1) cells, and II; a wide range of tumours, and inflammatory diseases (asthma, 1) cells, they can also be used for drug screening; diagnosis; target (1) disease). They can also be used for drug screening; pharmacogenomics; confidentification and validation, genetic engineering; pharmacogenomics; studying gene function and gene mapping (e.g. of single-nucleotide colymorphisms). The present sequence represents a MAPK siNA which is used in the exemplification of the present invention.
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Best Local (
                                                           10-FEB-2002; 2002US-0358580P.
11-MAR-2002; 2002US-0363124P.
06-JUN-2002; 2002US-0386782P.
29-AUG-2002; 2002US-0406784P.
05-SEP-2002; 2002US-0408378P.
09-SEP-2002; 2002US-0408378P.
15-JAN-2003; 2003US-0440129P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                short interfering nucleic acid; siNA; downregulation; inhibition; mitogen-activated protein kinase; MAPK kinase; MAPK; RNA interference; cytostatic; anorectic; antidiabetic; antiinflammatory; antiasthmatic; immunosuppressive; antibacterial; antirheumatic; antiarthritic; antipsoriatic; gastrointestinal; obseity; diabetes; tumour;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New short interfering nucleic acid, useful e.g. for treatment and diagnosis of cancer, downregulates expression of mitogen-activated protein kinase genes.
                                                                                                                                                                                                                                                                                                         28-JAN-2003;
                                                                                                                                                                                                                                                                                                                                                                        04-SEP-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     genetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       psoriasis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mitogen activated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           29-JAN-2004
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      (SIRN-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              inflammatory disease; asthma; septic shock; rheumatoid
psoriasis; inflammatory bowel disease; drug screening;
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      SIRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     engineering; pharmacogenomic; gene mapping;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
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                                                                                                                                                                                                                                                                                                             2003WO-US002510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
      THERAPEUTICS INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RNA;
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Pred. No. 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0 T; 5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ς;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9.2e+02;
2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0 Other
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                rheumatoid arthritis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 19;
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Other;

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antiasthmatic, immunosuppressive, antibacterial, antirheumatic, antipsoriatic and gastrointestinal activities. The MAPK sinNa can be used to modulate the expression of MAPK genes, in cells, tissue explants or organisms, e.g. for treating obesity; diabetes types and II; a wide range of tumours, and inflammatory diseases (asthma, septic shock, rheumatoid arthritis, psoriasis and inflammatory bowel disease). They can also be used for drug screening; diagnosis; target identification and validation; genetic engineering; pharmacogenomics; studying gene function and gene mapping (e.g. of single-nucleotide polymorphisms). The present sequence represents a MAPK siNA which is use in the exemplification of the present invention.
                                                                                                                                                                                                                                                          that downregulates expression of a mitogen-activated protein kinase (MAPK) genes by RNA interference. Also described: (1) a method for modulating expression of MAPK genes in cells, tissue explants or organisms by introduction of siNA; (2) kits for in vitro or in vivo delivery of siNA; (3) conjugates and/or complexes of siNA; and (4) vectors that express siNA and cells containing these vectors. MAPK siNAs have cytostatic, anorectic, antidiabetic, antiinflammatory,
                                                                                                                                                                                                                                                                                                                                                                                                         The present invention describes a short interfering nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Мсвwiggen J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            diagnosis
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         kinase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        interfering nucleic acid, of cancer, downregulates e
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Beigelman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     genes
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                                                                                                                                                                                                                                                                                                                                                                                                                                               742;
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                                                                                                                                                                                                                                                                                                                                                                                                                                           164pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Usman N,
                                                                                                                                                                                                                                                                                                                                                                                                                                               English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        , useful e.g. for treatment and expression of mitogen-activated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Haeberli P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Chowrira
                                                                                                                                                                                                                                                                                                                                                                                                       acid (siNA)
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ADE30405/c
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Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                 short interfering nucleic acid; siNA; downregulation; inhibition; mitogen-activated protein kinase; NAP kinase; MAPK; RNA interference; cytostatic; anorectic; antidiabetic; antiinflammatory; antiasthmatic; immunosuppressive; antibacterial; antirheumatic; antiarthritic; antipsoriatic; gastrointestinal; obesity; diabetes; tumour; inflammatory disease; asthma; septic shock; rheumatoid arthritis;
                                                                                                                                                              genetic
                                                                                                                                                                        inflammatory disease; asthma; septic shock; rheumatoid arthritis; psoriasis; inflammatory bowel disease; drug screening;
                                                                                                                                                                                                                                                                          Mitogen activated protein kinase siNA oligonucleotide
                                                                                                                                                                                                                                                                                                    29-JAN-2004
                                                                                                                                                                                                                                                                                                                                                      ADE30405
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 l Similarity
12; Conserv
                                                                                                                                                           engineering; pharmacogenomic; gene mapping;
                                                                                                                                                                                                                                                                                                                                                      standard;
                                                                                                                                                                                                                                                                                                                                                                                                                   GAGCUGAAGAUUCUGGAU 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                      RNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 14.8;
Pred. No. 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .2e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 19;
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                                                                                                                                                                                                                                                                          SEQ ID NO:1027.
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20-FEB-2002; 11-MAR-2002; 06-JUN-2002; 29-AUG-2002;

; 2002US-0358580P. ; 2002US-0363124P. ; 2002US-0386782P. ; 2002US-0406784P.

28-JAN-2003;

2003WO-US002510

Synthetic.

WO2003072590-A1

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RESULT 1396
ADEZ7435
ID ADEZ743
XX ADEZ743
XX Stearoy
XX Short i
KW Stearoy
XX Short i
KW Stearoy
XX Stearoy
XX Short i
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XX Stearoy
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                        11 MAR - 2002; 2002US - 0358580P.
11 MAR - 2002; 2002US - 036314P.
06 - JUN - 2002; 2002US - 0386782P.
29 - AUG - 2002; 2002US - 0406784P.
05 - SEP - 2002; 2002US - 040378P.
09 - SEP - 2002; 2002US - 0409293P.
20 - SEP - 2002; 2002US - 0412304P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  genes in cells, tissue explants or organisms by introduction of siNA; (2) kits for in vitro or in vivo delivery of siNA; (3) conjugates and/or complexes of siNA; and (4) vectors that express siNA. SCD inhibiting siNAs have anorectic, antidiabetic, antiarteriosclerotic, cytostatic and virucide activities. The siNAs can be used to modulate expression of SCD genes, in cells, tissue explants or organisms, e.g. for treating obesity; diabetes (types I and II); atherosclerosis; cancer and viral infections. They can also be used for drug screening; diagnosis; target identification and validation; genetic engineering; pharmacogenomics; studying gene function and gene mapping (e.g. of single-nucleotide polymorphisms). The present sequence represents an SCD siNA, which is used in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         short interfering nucleic acid; siNA; downregulation; inhibition; Stearoyl-CoA desaturase; RNA interference; anorectic; antidiabetic; antiarteriosclerotic; cytostatic; virucide; obesity; diabetes; atherosclerosis; cancer; viral infection; drug screening;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Stearoyl-CoA desaturase siNA oligonucleotide SEQ ID NO:379.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADE27435;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADE27435 standard; RNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present invention describes a short interfering nucleic acid (siN that downregulates expression of the SCD (stearoyl-CoA desaturase) get by RNA interference. Also described: (1) modulating expression of SCD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New short interfering nucleic acid, useful e.g. for treatment and diagnosis of obesity or diabetes, downregulates expression of the stearoyl-COA desaturase gene.
                                                              WPI; 2003-721687/68.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      genetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  29-JAN-2004
      New short interfering nucleic acid, useful e.g. for treatment
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                                                                                                                                                                                      (RIBO-) RIBOZYME PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Simhes 16;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   engineering; pharmacogenomic; gene mapping; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTGCCTACCTGGGAGGCA 2306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CIGCTIGCCIGGGAGGCA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BP; 4 A; 7 C; 5 G; 0 T; 3 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first
                                                                                                                                                                                                                                                     2003US-0440129P
                                                                                                                          Beigelman
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                                                                                                                       Thompson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 14.8; DB 1;
Pred. No. 9.2e+02;
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RESULT 1397
ADE30329/c
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                                                                                                                    11-MAR-2002;
06-JUN-2002;
29-AUG-2002;
05-SEP-2002;
09-SEP-2002;
                                                                                                                                                                                                                                                                                                                                                                                                  short interfering nucleic acid; sinh; downregulation; inhibition; mitogen-activated protein kinase; MAP kinase; MAPK, RNA interference; cytostatic; anorectic; antidiabetic; antiinflammatory; antiasthmatic; immunosuppressive; antibacterial; antirheumatic; antiarrhritic; antipsoriatic; gastrointestinal; obesity; diabetes; tumour; intipsoriatic; gastrointestinal; obesity; diabetes;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               genes, in cells, tissue explants or organisms, e.g. for treating obesity; diabetes (types I and II); atherosclerosis; cancer and viral infections. They can also be used for drug screening; diagnosis; target identification and validation; genetic engineering; pharmacogenomics; studying gene function and gene mapping (e.g. of single-nucleotide polymorphisms). The present sequence represents an SCD sina, which is used in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        by RNA interference. Also described: (1) modulating expression of SCD genes in cells, tissue explants or organisms by introduction of siNA; (2) kits for in vitro or in vivo delivery of siNA; (3) conjugates and/or complexes of siNA; and (4) vectors that express siNA. SCD inhibiting siNAs have anorectic, antidiabetic, antiarteriosclerotic, cytostatic and virucide activities. The siNAs can be used to modulate expression of SCD virucide activities.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 diagnosis of obesity or diabetes, downregulates expression of stearoyl-CoA desaturase gene.
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                                                                                                                                                                                                                                                                04-SEP-2003
                                                                                                                                                                                                                                                                                                                            Synthetic
                                                                                                                                                                                                                                                                                                                                                         genetic engineering; pharmacogenomic; gene mapping;
                                                                                                                                                                                                                                                                                                                                                                           psoriasis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mitogen activated
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADE30329;
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                                          Mcswiggen J,
                                                                                                                                                                                                                                 28-JAN-2003;
                                                                                                                                                                                                                                                                                               WO2003072590-A1
                                                                                                                                                                                                                                                                                                                                                                          inflammatory disease; asthma; septic shock; rheumatoid arthritis;
soriasis; inflammatory bowel disease; drug screening;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2289
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     present invention describes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                resent invention describes a short interfering nucleic acid (siNA) downregulates expression of the SCD (stearoyl-CoA desaturase) gene
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                                                                          SIRNA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              standard; RNA; 19
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                                                                                                      2002US-0358580P.
2002US-0363124P.
2002US-0386782P.
2002US-0406784P.
2002US-040873P.
2002US-0440129P.
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                                          Beigelman
                                                                          THERAPEUTICS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    kinase siNA oligonucleotide SEQ ID NO:951.
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                                           Usman N,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pred.
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                                             Haeberli P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9.2e+02
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                                             Chowrira
                                           8
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WPI; 2003-689980/65

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Best Local S
Matches 16
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17-MAY-2001; 2
01-FEB-2002; 2
04-MAR-2002; 2
                    11-MAY-2001; 2001US-0290071P.
17-MAY-2001; 2001US-029131P.
01-FEB-2002; 2002US-0353058P.
04-MAR-2002; 2002US-0361293P.
                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention relates to High Bone Mass (HBM), LRP5 (Zmax1) ar LRP6 mutants, which results in a HBM-like phenotype when expressed in cell. The HBM-like phenotype results in bone mass modulation and/or lilevel modulation. The invention is useful for diagnosing a HBM-like phenotype in a subject and for preparing a composition for modulating bone mass and/or lipid levels in a subject suffering from e.g. osteoporosis. The present PCR primer was used to illustrate the
                                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New nucleic acid comprising a mutation in LRP5 or LRP6, useful for diagnosing a HBM-like phenotype in a subject and for preparing a composition for modulating bone mass and/or lipid levels in a subject
                                                                                                                                                                          Osteopathic; Gene therapy; High Bone Mass; HBM; LRP5; Zmax1; LRP6;
                                                                                                                                                                                               Sequence tagged
                                                                                                                                                                                                                      04-DEC-2003
                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                           13-MAY-2002;
                                                                                                                                                                                                                                           ADB98306;
                                                                                                                                                                                                                                                                 ADB98306 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  suffering from e.g. osteoporosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2003-129214/12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Allen
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                                                                                                                                                                                                                                                                                                                                 4353 TCGTTGAGGGCGCCATTC 4370
                                                                                                                                                                mass modulation; osteoporosis; STS; sequence tagged site;
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16; Conserv
GENOME
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; 2001US-0290071P.
; 2001US-0291311P.
; 2002US-0353058P.
; 2002US-0361293P.
                                                                                                                                                                                                                                                                                                                                                                                                           BP; 4 A;
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                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                            2002WO-US014877
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2002WO-US014877
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                                                                                                                                                                                               site #187 used
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Pred. No. 9
                                                                                                                                                                                               to prepare
                                                                                                                                                                                                                                                                                                                                                                 Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                           0 Other;
                                                                                                                                                                                                                                                                                                                                                                                     DB 1;
                                                                                                                                                                                                Zmax1 (LRP5)
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                                                                                                                                                                                                                                                                                                                                                                                   Length 19;
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/or lipid
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RESULT 1395
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XX ADE2714
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Best Local S
Matches 16
                                                                                                                                                              20-FEB-2002; 2002US-0358580P.
11-MAR-2002; 2002US-0363124P.
06-JUN-2002; 2002US-0366782P.
29-AUG-2002; 2002US-0406784P.
05-SEP-2002; 2002US-0408378P.
09-SEP-2002; 2002US-0409293P.
20-SEP-2002; 2002US-0412304P.
15-JAN-2003; 2003US-0410129P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention relates to High Bone Mass (HBM), LRP5 (Zmax1) and LRP6 mutants, which results in a HBM-like phenotype when expressed in a cell. The HBM-like phenotype results in bone mass modulation and/or lipid level modulation. The invention is useful for diagnosing a HBM-like phenotype in a subject and for preparing a composition for modulating bone mass and/or lipid levels in a subject suffering from e.g. osteoporosis. The present sequence is a Sequence Tagged Site (STS) marker, which was used to prepare a physical map of the Zmax1 (LRPS) gene receipts.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New nucleic acid comprising a mutation in LRP5 or LRP6, useful for diagnosing a HBM-like phenotype in a subject and for preparing a composition for modulating bone mass and/or lipid levels in a subject
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   antiarteriosclerotic; cytostatic; virucide; obesity; diabetes;
atherosclerosis; cancer; viral infection; drug screening;
                                                                                                                                                                                                                                                                                                                                                                                        13-FEB-2003; 2003WO-US004317
                                                                                                                                                                                                                                                                                                                                                                                                                                       28-AUG-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     stearoyl-CoA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           short interfering
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Stearoyl-CoA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADE27145 standard;
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                                                                       Mcswiggen J,
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                                                                                                                      (RIBO-)
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16; Conserv
                                                                                                                         RIBOZYME PHARM
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Page 62; 629pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     desaturase; RNA interference; anorectic;
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                                                                       Beigelman
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                                                                       Thompson
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Pred.
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WO. 9.2e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           inhibition;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       <u>.</u>
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ACC45608/c
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                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local S
Matches 16
           Human; high bone mass; HBM; LRP5; LRP6; transgenic; bone mass modulation; gene therapy; bone density modulation; bone strength; trabecular number; bone size; bone tissue connectivity; bone disease; osteoporosis; PCR; osteomalacia; rickets; Paget's disease; neoplasm of the bone; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New transgenic animals (e.g. mice), useful as models for studying bone density modulation, developing drugs for treating or preventing bone diseases (e.g. osteoporosis), or diagnosing diseases characterized by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          11-MAY-2001; 2001US-0290071P.
17-MAY-2001; 2001US-0291311P.
01-FEB-2002; 2002US-0353058P.
04-MAR-2002; 2002US-0361293P.
                                                                                                            Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 19
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                                                                                                                                            02-JUN-2003
                                                                                                                                                                                                                    ACC45608 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure; Page 162; 603pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    reduced bone
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                                                                                                                                                                                                                                                                                                                                                   4353 TCGTTGAGGGCGCCATTC 4370
                                                                                                            HBM
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                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
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                                                                                                                                                                                                                                                                                                                 TCGTCGGGGGGGCCATTC 1
                                                                                                          STS marker
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              BP; 4 A; 8 C; 6 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  density.
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                                                                                                      forward primer #94.
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Pred. No. 9.
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The invention relates to novel transgenic animals expressing the high CC bone mass (HBM) gene, expressing the corresponding wild type HBM gene, comprising an alteration of the gene encoding LRP5 or LRP6, or expressing cc omprising an alteration of the gene encoding LRP5 or LRP6, or expressing can LRP5 that is modulated by an altered gene control sequence introduced by homologous or non-homologous recombination. The transgenic animals are for the study of bone density modulation or bone mass modulation. The control sequence introduced the invention has osteopathic and cytostatic activity. The polymucleotides of the invention may have a use in gene therapy. The transgenic animals and culeic acids are for the study of bone density modulation, where the bone mass is modulated relative to non-transgenic animals of the same cc species in more than one parameter selected from bone density, bone strength, trabecular number, bone size, or bone tissue connectivity. The transgenic animals, nucleic acids and methods are useful for identifying compositions, which may be employed for treating or preventing bone compositions, which may be employed for treating or preventing bone complasms of the bone. The transgenic animals and nucleic acids are also cuseful in methods for diagnosing diseases involved in bone development, or characterised by reduced bone density or mass. The present sequence is used in the exemplification of the invention
Sequence 19 BP; 4 A; 7 C; 4 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure; Page 55;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New transgenic animals (e.g. mice), useful as models density modulation, developing drugs for treating or diseases (e.g. osteoporosis), or diagnosing diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Babij P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11-MAY-2001; 2001US-0290071P.
17-MAY-2001; 2001US-0291311P.
01-FEB-2002; 2002US-0353058P.
04-MAR-2002; 2002US-0361293P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO200292764-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (GENO-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          21-NOV-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              13-MAY-2002; 2002WO-US014876
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WYETH.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Yaworsky PJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        603pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Bodine PV;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       for studying bone preventing bone characterized by
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á Query Match Best Local Similarity Matches 16; Conserv 3048 TTCCAGGGGGAGATCAAG 3065 Conservative 0.3%; 0 Score 14.8; Pred. No. 9. Mismatches 9.2e+02 DB 1; Length 19; o ; Gaps

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18

RESULT 1393 ADB98794/c Osteopathic; Gene therapy; High Bone Mass; bone mass modulation; osteoporosis; mouse; 04-DEC-2003 ADB98794; ADB98794 standard; DNA; 19 BP Mouse Zmaxl (LRP5) (first entry) PCR primer #18.

HBM; LRP5; Zmax1; LRP6; PCR; primer; ss.

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ABK23025/c
                                                                      Matches
                                                                                    Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                      The invention relates to a method for identifying a molecule involved in lipid regulation comprising identifying a molecule that binds to or inhibits binding of a molecule to high bone mass (HBM) or its wild type gene, Zmaxl. Compounds identified by the method are useful for treating, diagnosing, preventing or screening for normal and abnormal lipid-associated conditions, including arteriosclerosis, cardiovascular
                                                                                                                                                                        HBM systems can be used as surrogate markers in pharmaceutical development, in diagnosis of human or animal bone disease, and in the treatment of bone diseases. Sequences ABK22776-ABK23411 represent cDNA molecules encoding human Zmax1 and HBM, and PCR primers, probes, linker and adapters of the invention
                                                                                                                                                                                                                                                           associated conditions, including arteriosclerosis, cardiovascular disease, stroke, and osteoporosis. The compounds may also be used in the treatment or prevention of diabetic atherosclerosis, neurovascular conditions caused by plaque build-up, poor circulation due to plaque build-up, poor accountation due to plaque build-up and associated poor wound healing. The methods may be used in gene therapy, pharmaceutical development, and diagnostic assays for bone development disorders. Molecules identified by comparison of Zmax1 and development disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Identifying molecules involved in lipid regulation, useful for diagnosing, treating or preventing e.g., arteriosclerosis, complete identifying a molecule that binds to high bone mass gene or its corresponding wild type gene.
                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2002-097784/13.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO200192891-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               osteoporosis; atherosclerosis; diabetic atherosclerosis; plaque neurovascular condition; wound healing; gene therapy; PCR primer bone development disorder; antiarteriosclerotic; cardiovascular; osteopathic; cerebroprotective.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ABK23025;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Carulli JP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     26-MAY-2000; 2000US-00578900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          25-MAY-2001; 2001WO-US016946
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human Zmax1 cDNA forward PCR primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABK23025 standard; DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ipid-associated condition;
                                   3048
18
                                                                    16;
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                                                                                   Similarity
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TTCCTGGGCGAGATCAAG
                                 TTCCAGGGGGAGATCAAG
                                                                                                                                        BP; 4 A;
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                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Little RD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
                                                                                   0.3%;
                                                                                                                                      7 C; 4 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SCHOOL MEDICINE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Recker RR,
-
                                 3065
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              igh bone mass gene; lipid regulation; stroke; arteriosclerosis; cardiovascular disease; ss; is; diabetic atherosclerosis; plaque build-up; und healing; gene therapy; PCR primer; probe;
                                                                  0,
                                                                                   Score 14.8; DB 1
Pred. No. 9.2e+02
                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              #94.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Johnson ML;
                                                                                                   DB 1;
                                                                                                   Length 19;
                                                                    Indels
                                                                                                                                                                                              probes, linkers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       comprises
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RESULT 1390 ADJ78668/c

Synthetic

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RESULT 1391
ACC46076/c
ID ACC46076 standard; DNA; 19
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sequences, and a screening, risk-identification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADJ78668 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                        The invention comprises 42 gene sequences which were found to be differentially methylated in pancreatic cancer. The DNA sequences of tinvention are useful in detecting cellular proliferative disorders in patient. The DNA sequences of the invention are useful for cancer screening, risk-assessment, prognosis, minimal-residual disease identification, staging and identification of therapeutic targets. The
                                  gene therapy; bone dens
bone size; bone tissue
                                                                                                                                                                                                                                                                                                                                                                 present DNA sequence of the invention
                                                            High bone mass;
                                                                                                                                                                                                                                                                                                                                        Sequence 19 BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     primer
                                                                                       Forward
                                                                                                                02-JUN-2003
                                                                                                                                          ACC46076;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 21; SEQ ID NO 50; 73pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New isolated nucleic acid molecules comprising differentially methylated sequences, and associated regulatory sequences, useful for cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2002-707019/76.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Goggins MG,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     23-FEB-2001; 2001US-0271268P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                prognosis; minimal-residual disease identification;
therapeutic target identification; ss; methylation-specific PCR; MSP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cellular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        differential methylation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pancreatic cancer-related
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          06-MAY-2004
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                                                                                                                                                                                                                                                                                      16;
                                                                                                                                                                                                                                                                                                                                                                invention.
                                                                                       PCR
                                                                                                                                                                                                                                                                                                  Similarity
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                                                                                                                                                                                                                                                           GAAGGAAGTGAGGGGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        proliferative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       risk-assessment, prognosis, or minimal-residual disease
                                                                                    primer for genotyping LRP5 transgenic mice.
                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ueki T;
                 ne tissue connectivity; bone disease; osteoporosis; rickets; Paget's disease; neoplam of the tribution;
                                                                                                               (first entry)
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                                                 HBM; LRP5; LRP6; transgenic; bone mass modulation;
one density modulation; bone strength; trabecular n
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A;
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                                                                                                                                                                                                                                                                                                                                        9 0; 0
                                                                                                                                                                                                                                                                                                                                                                             represents a methylation-specific PCR (MSP) primer
                                                                                                                                                                                                                                                                                                   88.98;
                                                                                                                                                                                                                                                                                                               0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         on; pancreatic cancer; disorder; cancer screening; risk-assessment;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               gene methylation-specific PCR
                                                                                                                                                                    ВÞ
                                                                                                                                                                                                                                                           2834
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                                                                                                                                                                                                                                                                                                              Score 14.8;
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                                                                                                                                                                                                                                                                                                               DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                             The DNA sequences of the
                                                                                                                                                                                                                                                                                                              Length
                                                                                                                                                                                                                                                                                      Indels
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Score 14.8; DB 1; Pred. No. 9.2e+02;

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Length 19; Indels

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ABK37459
                                                                                                                                                    The present invention relates to viral vectors comprising a nucleic acid sequence encoding retinoic acid receptor beta-2 (RARbeta2). The vector is preferably based on or derived from a lentivirus, more preferably nongrises deleted regions of the gag-pol genes. The vector may be engineered to replace all or part of the env gene with env sequences from other RNA viruses (e.g. gene encoding vesicular stomatitis virus gyeven;), the vottor. The viral vectors of the invention are useful in the preparation of a medicament, or in gene therapy to stimulate neurite development, or for the treatment of a neurological disorder (e.g. parkinson's disease and spinal cord injuries). The vectors are also useful for treating cancers, inflammatory disorders, ulcers, autoimmune disorders, cardiovascular disorders, ulcers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Viral vector; retinoic acid receptor beta-2; RARbeta2; gag-pol; env; non-primate lentivirus; equine infectious anaemia virus; RIAV; cancer; vesicular stomatitis virus (granceri); VSV-G; neurite development; neurological disorder; inflammatory disorder; dermatological disorder; autoimmune disorder; cardiovascular disorder; nerve growth factor; NGF; neurite outgrowth; gene therapy; human; RXRgamma; primer; ss.
                                                haemophilia, liver cirrhosis, bone marrow transplantation or other transplantation complications. The vectors eliminate the need for administration of nerve growth factor (NGF) to a subject, enable neurite outgrowth to be promoted in adult neural tissue, and enable RARbeta2 to be introduced into non-dividing mammalian cells such as neuronal cells. The present sequence represents a primer used in the methods of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ABK37459 standard; DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Novel viral vector useful in preparation of medicament to cause neurite development or for treatment of neurological disorder, comprises a sequence encoding a receptor, preferably retinoic acid receptor beta-2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     30-MAR-2000;
04-OCT-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human RXRgamma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 08-MAY-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                  Disclosure; Page 207; 241pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2002-010796/01.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         30-MAR-2001; 2001WO-GB001478.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (OXFO-) OXFORD BIOMEDICA UK LTD
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2000WO-GB001211.
2000GB-00024300.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             reverse primer
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Pred. No. 9
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Matches Query Match

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Score 14.8; Pred. No. 9.

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RESULT 1388
ABT11243/c
ID ABT1124
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XX ABT1124
XX TRC8 re
XX TRC8, T
KW TRC8, T
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Matches 16
                                                                                                                        The invention relates to an isolated TRC8 (Translocation in Renal cancer from Chromosome 8) nucleic acid molecule, encoding a polypeptide comprising a sequence of 664 amino acids fully defined in the specification and comprising a sequence located in the 5 flanking region to the coding region of TRC8 and a sequence which occurs in certain sporadic renal cell carcinomas. The methods are useful for detecting the presence of the TRC8 gene in a biological sample, detecting alterations to the gene, such as a 3;2 human chromosomal translocation, and fused DNA containing the fused site of TRC8/FHIT. A nucleic acid probe is useful for detecting the 3;8 human chromosomal translocation, by contacting the nucleic acid probe with a biological sample to be tested, and determining whether the nucleic acid probe specifically hybridies to the TRC8/FHIT or purify/mpco services.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Novel Translocation in Renal cancer from Chromosome 8 genes, useful for detection of tumors, comprises rearrangements in the t(3;8) (p14.2;q24.1) chromosomal translocation which occurs in renal and thyroid carcinomas.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TRC8; Translocation in Renal cancer from Chromosome 8; fused DNA; FHIT/TRC8 fusion DNA; sporadic renal cell carcinoma; TRC8/FHIT; TI human chromosomal translocation; ds.
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   Sequence 19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            12-MAR-1998;
12-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    02-JUL-2001; 2001US-00898533.
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                                                                    FHIT/TRC8 fusion DNA. The sequence related to the
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      BP; 11 A; 0 C; 8 G; 0 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Drabkin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DNA sequence
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99US-00268140.
                                                                    This polynucleotide sequence he TRC8 polynucleotide of the
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      0 Other;
                                                                        represents invention
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RESULT 1385
AAH61411
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Best Local S
Matches 16
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 recognition site; target; ribozyme binding site; eye disease; vulnerary; proliferative disease; skin disease; psoriasis; diabetic retinopathy; cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP; matrix metalloproteinase; growth factor; reductase; scarring; cytostatic; antipsoriatic; dermatological; antiseborrheic; antidiabetic; virucide; antisickling; ophthalmological; keratolytic; gene therapy; viral wart; atopic dermatitis; actinic keratosis; squamous cell carcinoma; beabrands cell carcinoma; seborrheic wart; vitreoretinopathy; scar; basal cell carcinoma; seborrheic wart; vitreoretinopathy; scar;
                                                                                                                                                                                                                                                                              Treating proliferative skin or eye diseases and scarring, using ribozymes that cleave RNA encoding cytokines involved in inflammation, matrix metalloproteinases, growth factors and cell-cycle dependent kinases.
                            ribozyme (I) which cleaves RNA encoding a cytokine involved inflammation, matrix metalloproteinase (MMP), cyclin, cell-c dependent kinase, growth factor or a reductase, or administe
                                                                                                                                                          The present
                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2001-300427/31.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Robbins JM,
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                                                                                                                                                                                                                       Example
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (IMMU-) IMMUSOL INC.
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ition site; target; ribozyme binding site; eye disease; v
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16;
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                                                                                                                      sent invention describes a method for treating a proliferative eye disease and scarring. The method involves administering a
                                                                                                                                                                                                                       ٠,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ribozyme binding site SEQ ID NO:3839.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGGGGAGATCAAGCTGCA
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                                                                                                                                                                                                                       Page 351;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0.3%;
ilarity 88.9%;
Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Tritz R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
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                                                                                                                                                                                                                    408pp; English.
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Pred. No. 9.2e
0; Mismatches
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   or administering roperably linked
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nucleic

acid

molecule (II)

comprising a promoter operably

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Sequence 19 BP; 4 A; 7

C; 4 G; 4 T; 0 U; 0 Other

The present invention describes the human Zmax1 gene and the high bone mass (HBM) gene, which are found on chromosome 11q13.3. The Zmax1 and HBM genes have osteopathic activities. The genes can be used in gene therapy and in the production of vaccines. They can be used in the diagnosis and treatment of bone disorders including osteoporosis, Paget's disease, sclerostosis, osteomalacia and fibrous dysplasia.

ABAB2038 to ABAB2700 and AAG68168 to AAG68193 represent sequences used in the exemplification of the present invention

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ABA82228/c
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Best Local :
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                                                                                                                                                                                                                                                                                                  05-APR-2000; 2000US-00543771.
05-APR-2000; 2000US-00544398.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; high bone mass; HBM gene; Zmaxi gene; chromosome 11; 11q13-3; sequence tagged site; STS; osteoporosis; osteopathic; gene therapy; antisense therapy; vaccine; bone disorder; Paget's disease; adapter; sclerostosis; osteomalacia; fibrous dysplasia; PCR primer; linker; s
                                                                                                                                                Disclosure; Page 34; 443pp; English.
                                                                                                                                                                        New high bone mass (HBM) modulating bone mass for
                                                                                                                                                                                                                   WPI; 2001-657171/75.
                                                                                                                                                                                                                                              Carulli JP, Little RD,
                                                                                                                                                                                                                                                                                                                                                                       18-OCT-2001.
                                                                                                                                                                                                                                                                                                                                                                                                WO200177327-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                          Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens.
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                                                                                                                                                                                                                                                                         (GENO-)
                                                                                                                                                                                                                                                                                                                                          21-JUN-2000; 2000WO-US016951
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Zmax1 gene region physical map preparation STS marker #187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                25-JAN-2002
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                                                                                                                                                                                                                                                                         GENOME THERAPEUTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GGGGGAAACAAAGAAGGA
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                                                                                                                                                                          and Zmax1 genes and proteins useful the treatment of e\cdot g\cdot osteoporosis.
                                                                                                                                                                                                                                              Recker RR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ВP
                                                                                                                                                                                                                                                                         CORP.
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Pred. No. 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             invention
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                                                                                                                                                                                                                                              Johnson
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         chromosome 11; 11q13.3;
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ABZ82677

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The present invention describes a compound (I) 8-50 nucleobases in length trargeted to a nucleic acid molecule encoding a hormone-sensitive lipase (HSL) or a splice variant of HSL. The compound specifically hybridises with and inhibits the expression of HSL or a splice variant of HSL, or specifically hybridises with at least an 8-nucleobase portion of an active site on a nucleic acid molecule encoding HSL. (I) have anorectic, antidiabetic and cytostatic activities, and can be used in antisense therapy. (I) is useful for treating an animal, particularly human, suspected of having an abnormal metabolic condition such is obesity, hyperilipidaemia, type 2 diabetes, a hyperproliferative disorder such as cancer (e.g. pituitary, colorectal, breast, testicular, pulmonary or epithelial cancer). (I) is also useful in modulating blood glucose levels, particularly plasma or serum glucose levels, in a diabetic animal. The present sequence represents a human hormone-sensitive lipase colimeric phosphorothicate antisense oligonucleotide, which is used in an examination of the represent exemption.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           phosphorothioate; antidiabetic; anorectic; cytostatic; abnormal metabolic condition; hyperlipidaemia; type 2 hyperproliferative disorder; human; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          14-MAY-2003
                                                                                                                                                                                                                                                                                                                                        New antisense oligonucleotides targeted against nucleic acids encoding hormone-sensitive lipase, useful for treating abnormal metabolic condition, e.g. hyperlipidemia and obesity, or a hyperproliferative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic
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Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                        Butler MM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  26-JUL-2001; 2001US-00915814
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15-JUL-2002; 2002WO-US022672
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                                                                                                                                                                                                                                                                                             Example 15; Page 88; 167pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Hormone-sensitive lipase; antisense oligonucleotide; inhibitor;
                                                                                                                                                                                                                                                                                                                                                                                                         2003-239411/23.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SISI
                                                                                                                                                                                                                                                                                                                           e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         chimeric phosphorothioate oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                     Watt AT,
BP; 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                              the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PHARM INC
                                                                                                                                                                                                                                                                                                                             cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /note= "
16. .20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             note=
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/mod_base= OTHER
A; 6 C; 4 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                      Freier SM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "2'-O-methoxyethyl (2'-MOE) wing"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        "2'-O-methoxyethyl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   'phosphorothioate linkages"
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                                                                                                                                                                                                                                                                                                                                                                                                                                      Wyatt JR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (2'-MOE) wing"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; antisense diabetes; c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cancer,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            obesity;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            therapy;
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Query Match Best Local Similarity

0.3**%**;

Score 14.8; DB 1; Pred. No. 9.9e+02;

Length 20,

(first entry)

DNA;

20 ВÞ

0

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RESULT 1496
ABT32580/c
ID ABT32580 standard; D
XX
AC ABT32580;
XX
DT 15-MAY-2003 (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 1495
ABZ77624/c
ID ABZ77624 standard; cDNA; 20
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                                                                                                                                                                                              Matches
                                                                                                                                                                                                           Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New insulin-secreting cell line, useful to test the efficacy of drugs that stimulate insulin secretion, or to develop new diabetes treatments, comprises islet duodenal homeobox-1 (IDX-1) cDNA and culturing in glucagon-like peptide-1 (GLP-1).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Insulin-secreting cell; pancreatic cell; islet duodenal horizon: jucagon-like peptide-1; GLP-1; insulin secretion; diabetes; PCR; primer; GLUT2; ss.
                                                                                                                                                                                                                                                                                               The specification describes an insulin-secreting cell, comprising a pancreatic cell transfected with islet duodenal homeobox-1 (IDX-1) cDNA and cultured in glucagon-like peptide-1 (GLP-1). The cell exhibits a dose dependent response of insulin secretion when exposed to glucose. The insulin-secreting cells and cell lines are useful for investigating the function and development of pancreatic cells, to test the efficacy of drugs that stimulate insulin secretion, or to develop new approaches to treat diabetes. PCR primers ABZ77624-25 were used to amplify a fragment of the GLUT2 gene. The primers were used to test the effect of GLP-1 on
                                                                                                                                                                                                                                                        Sequence 20 BP; 4 A; 2 C; 7 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    02-AUG-2001; 2001US-00920868
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO2003012084-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               03-JUN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABZ77624;
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example; Page 22; 57pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  25-JUL-2002; 2002WO-US023857.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                13-FEB-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PCR primer used to amplify a fragment of the GLUT2 gene
                                                                                                                                                                                                                                                                                      pancreatic cells,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2003-278399/27.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens
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                                                                                                                                                               1002 TTCCAGCGACTGCAAAGC 1019
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                                                                                                                                    TTCCACCAACTGCAAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CCACTTAACTCCAGGAAG
                                                                                                                                                                                              Conservative
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                                                                                                                                                                                                                                                                                      in the course of the invention
                                                                                                                                                                                                         0.3%;
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                                                                                                                                                                                                            Score 14.8;
Pred. No. 9
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                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                              9.9e+02
                                                                                                                                                                                                                            DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    duodenal homeobox-1;
secretion; glucose;
                                                                                                                                                                                                                         Length
                                                                                                                                                                                              Indels
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ABZ98648

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                                                                                                                                                                                                                                                                                                                                                  junctions of genes encoding a polypeptide associated with lung and/or nasal airway dysfunction and a second active agent comprising an antiinflammatory steroid and ubiquinone. A composition of the invention has antiinflammatory, antiallergic, antiasthmatic, hypotensive, has antiinflammatory, antiallergic, antiasthmatic, hypotensive, and cytostatic activity. The composition may have a use in antisense gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also for enhancing the prophylactic or therapeutic respiratory effect of an antiinflammatory steroid in a subject, for reducing or depleting levels of, or reducing sensitivity to adenosine, reducing levels of adenosine receptor, producing bronchodilation, increasing levels of adenosine receptor, producing bronchodilation, increasing levels of adenosine receptor, producing sensitivity to adenosine, reducing levels of adenosine receptor, producing bronchodilation, increasing levels of adenosine reducing file sense or condition. Note: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO
                                                                                                                               Matches
                                                                                                                                                                                              Query Match
                                                                                                                                                                  Best
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      first active agent comprising an oligonucleotide antisense to the initiation codon, coding region, 5' or 3' end genomic flanking region 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
                                                                                                                                                                                                                                                            Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to a novel pharmaceutical composition,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        24-APR-2001; 2001US-0286137P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human tryptase a oligonucleotide sequence
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                                                                                                                                                                                                                                                                                                                       ftp.wipo.int/pub/published_pct_sequences
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                                                              900 ATCCCGCTGACTGCCAGC
                                                                                                                            16; Conser
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, Tang L,
                                                                                                                                                                                                                                                            BP; 4 A; 6 C; 6 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQ ID NO 13890; 872pp; English.
                                                                                                                               Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sandrasagra A,
L, Shahabuddin
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                                                                                                                                                           0.3%;
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                                                              917
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                                                                                                                            Score 14.8; DB 1;
Pred. No. 9.9e+02;
0; Mismatches 2
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                                                                                                                                                                                          Length 20
                                                                                                                            Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   regions,
                                                                                                                            Gaps
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The invention relates to a novel pharmaceutical composition, which has a CC first active agent comprising an oligonucleotide antisense to the CC initiation codon, coding region, 5' or 3' end genomic flanking regions, CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of CC junctions of genes encoding a polypeptide associated with lung and/or CC nasal airway dysfunction and a second active agent comprising an CC antiinflammatory steroid and ubiquinone. A composition of the invention CC immunosuppressive, and cytostatic activity. The composition may have a use in antisense gene therapy. The composition is useful for treating or CC preventing a respiratory, lung or malignant disease or condition, also CC or enhancing the prophylactic or therapeutic respiratory effect of an antiinflammatory steroid in a subject, for reducing or depleting levels of, or reducing sensitivity to adenosine, reducing levels of adenosine creceptor, producing bronchodilation, increasing levels of ubiquinone or lung surfactant in a subject's tissue, or treating bronchoconstriction, CC Note: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO at figure at the printed specification, but was obtained in electronic format directly from WIPO at the printed specification.
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Miller S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic; antiasthmatic; hypotensive; immunosupressive; cytostatic; gene therapy; antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy; lung inflammation; respiratory disease; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
                                                                                                                                            Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2003-229219/22.
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                                                                                         Local
                                    1174 GAGAAGTCATCCGGACCC 1191
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                                                                                         Similarity
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 GAGAACTCATCCGGAGCC
                                                                                                                                            BP; 6 A; 7 C; 5 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQ ID NO 14104; 872pp; English.
                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
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                                                                                         88.9%;
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                                                                                           Pred.
                                                                                                          Score 14.8;
                                                                        Mismatches
                                                                                           No.
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                                                                                                          DB 1; Length
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RESULT 1493

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Content the sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO are ferrification, but was obtained in electronic format directly from WIPO
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Note: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO or ferfine wire intending the produced or the printed continues of the printe
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                                                                                                                                                                                                                                                                                                                      lung surfactant in a subject's tissue, or treating bronchoconstriction, lung inflammation, lung allergies, or a respiratory disease or condition. Note: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
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RESULT 1489

RESULT 1490

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                                                                     Matches
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Miller S
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                                                                                                                                            Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 15;
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                                 4406 AGATATAGATAATAA 4423
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AGATAAAAATAATAA
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                                                                                                                                          BP; 5 A; 1 C; 0 G; 14 T; 0 U; 0 Other;
                                                                     Conservative
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L, Shahabuddin
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CC Note: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO
                                                                     Query Match
Best Local S
Matches 16
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Miller S,
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                                                                                                                                             Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; SEQ ID NO 4183; 872pp; English
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19
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Tang
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                                                                       Conservative
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L, Shahabuddin
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                                                                                       0.3%;
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Note: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO
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Miller S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
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                                                            CTCTCCCGGGACCTCCTG 4158
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   CTGTCCCGGGACCTGCTG
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L, Shahabuddin
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                                                                                                                                                           Score 14.8;
Pred. No. 9
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RESULT 1487

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Miller S,
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                                                          CACCTGAAGAAACTGACC 1148
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, Tang L,
CACCTGAACAAACTGGCC
                                                                                                                                                                                                                                                            BP; 2 A; 4 C; 7 G; 7 T; 0 U; 0 Other;
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L, Shahabuddin
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                                                                                                                                                         0.3%;
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                                                                                                                                                             Score 14.8;
Pred. No. 9.
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                                                                                                                              Mismatches
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                                                                                                                                                                                     Length 20;
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                                                                                                                                                                        Query
Best L
                                                                                                                                          Matches
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Miller S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
                                                                                                                                                                                                                                                                                     Sequence 20
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antisense gene therapy; respiratory; lung; adenosine sensitivity;
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                                                                   1199 CCTGGAGTCTCTGCAGAG
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Tang
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L, Shahabuddin
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RESULT 1485

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                                                                   Query Match
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Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
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                      1226 CCAGCAGCTCTCCCCGGG 1243
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Miller S,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory; antiallergic; antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic; antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; SEQ ID NO 14551; 872pp; English.
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L, Shahabuddin
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Pred. No. 9
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RESULT 1484

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to a novel polynucleotide isolated and purified from a human gene having any one of 935 fully defined sequences as given in specification, or a sequence having a base substitution. The invention further relates to: an oligonucleotide containing single nucleotide colored from the combination of two DNA colored from any one of 1220 fully defined sequences as given in comparison; a labelling probe containing the SNP containing oligo; and microarray equipped with the SNP containing oligo. The isolated human colored gene of the invention is useful for detecting the single nucleotide polymorphisms in human gene. The isolated human gene is also effect to a medical agent. The isolated human gene is also effective in detecting single nucleotide polymorphisms in a human gene. This polynucleotide sequence represents conce of the PCR primers used in the single nucleotide polymorphisms in a human gene. This polynucleotide polymorphism
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local
           The invention relates to a novel polynucleotide isolated and purified from a human gene having any one of 935 fully defined sequences as given in specification, or a sequence having a base substitution. The invention further relates to: an oligonucleotide containing single nucleotide polymorphisms; a PCR primer set chosen from the combination of two DNA fragments from any one of 1220 fully defined sequences as given in specification; a labelling probe containing the SNP containing oligo; and a microarray equipped with the SNP containing oligo. The isolated human
                                                                                                                                                   Claim
                                                                                                                                                                                                                                                                                         12-FEB-2002; 2002JP-00034717
                                                                                                                                                                                                                                                                                                                       12-FEB-2002; 2002JP-00034717.
                                                                                                                                                                                                                                                                                                                                                     26-AUG-2003
                                                                                                                                                                                                                                                                                                                                                                                   JP2003235571-A
                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        human; single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Single nucleotide polymorphism detection primer, SEQ ID No 1128.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     26-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADF87545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADF87545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            detection method
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    in human
                                                                                                                                                                                                                                                             (KAGA-) KAGAKU GIJUTSU SHINKO
                                                                                                                                                                                   human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1879
                                                                                                                                                     2
                                                                                                                                                                                                 polynucleotide useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      N
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GTGAGAAGGAGTGGCTGG
                                                                                                                                                   SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQ
                                                                                                                                                                                 gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GAGAGATGGAGTGGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BP; 4 A;
   invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                  ID NO 1128; 704pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ij
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         nucleotide polymorphism; microarray; side effect; ss;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NO 1285;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                98.98;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11 C; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     704pp;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          N
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              G; 4 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 14.8; DB 1;
Pred. No. 9.9e+02;
D; Mismatches 2
                                                                                                                                                                                                                                                             JIGYODAN
                                                                                                                                                                                                detecting single nucleotide polymorphisms
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ou;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length
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single
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ADG20430
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                                                        Best
                                                                   Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local
                                                                                                                introducing a mutation in a gene involved in drug sensitivity of a shiitake mushroom. The gene involved in drug sensitivity of a shiitake mushroom encodes a succinate dehydrogenase Ip subunit, where the drug i carboxin. (I) is useful for providing resistance of shiitake mushroom against drugs e.g., carboxin. This sequence corresponds to a PCR primer used to amplify and mutate the genomic sequence for the succinate dehydrogenase Ip subunit.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       polymorphisms in human gene. The isolated human gene is also useful for diagnosis of disease and determination of side effect to a medical agent. The isolated human gene is also effective in detecting single nucleotide polymorphisms in a human gene. This polynucleotide sequence represents one of the PCR primers used in the single nucleotide polymorphism
                                                                                                                                                                                                                                                    New drug resistant gene, obtained sensitivity of shiitake mushroom,
                                                                                          Sequence
                                                                                                                                                                                                                      Example
                                                                                                                                                                                                                                                                                           WPI;
                                                                                                                                                                                                                                                                                                                                                                                    08-JUL-2003
                                                                                                                                                                                                                                                                                                                                                                                                         JP2003189855-A
                                                                                                                                                                                                                                                                                                                                                                                                                                           Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                               succinate dehydrogenase Ip subunit;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          drug resistance gene; mutation; drug sensitivity; shiitake mushroom;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 20 BP; 3 A;
                                                                                                                                                                                                                                                                                                               (IWAT-) IWATE
                                                                                                                                                                                                                                                                                                                                      25-DEC-2001; 2001JP-00392710
                                                                                                                                                                                                                                                                                                                                                             25-DEC-2001; 2001JP-00392710
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Lentinula edodes sdil gene mutagenic primer LeSD-L.
                                                        Local
                      2617
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                                                                                                                                                                                                                      <u>ب</u>
                                                        Similarity
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                CTGTCTTTGCCACATTTG
                                                                                          20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTCAGGAGGAGCTGCCTC
                                                                                                                                                                                                                     SEQ ID NO 10; 23pp; Japanese.
                                                                                                                                                                                                                                            as
                                                                                          BP; 1
                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                            carboxin.
                                                                                          A; 7 C; 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              the invention.
                                                      0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       6 C; 7 G; 4 T; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     88.9%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20
                                                                                                                                                                                                                                                                  obtained by mutating a gene involved in
                      2634
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19
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                                                                   Score
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                                                        Pred.
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                                             Mismatches
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                                                                                          T; 0
                                                                                                                                                                                                                                                       useful
                                                        No.
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.
                                                                   14.8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                               carboxin; primer;
                                                                                        <u>:</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       U; 0 Other;
                                                         o
                                                                                          0 Other;
                                                                                                                                                                                                                                                       for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     .9e+02;
                                                        9e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BB
                                                                    DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  <u>.</u>.
                                                                                                                                                                                                                                                       providing resistance
                                                                   Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length
                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
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                                            Gaps
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                                                                                                                                                                                                                                                       drug
e to
                                                                                                                                       primer
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RESULT 1478
AAD61663
ID AAD6166
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Best Local Similarity
Matches 16; Conser
 G-protein coupled receptor; GPCR; inflammation; myocardial infarctic
                                                                                                                                                                                                                                                                                                                                                                                      of ESR-alpha, however, have been associated with various cancers including the breast and pituitary. Accordingly, antisense oligonucleotides that inhibit the expression of ESR-alpha in cells or tissues can be used in gene therapy to treat conditions such as hyperproliferative disease, inflammation, tumour formation and to prevent or delay infection. As such, the present invention describes these antisense oligos as having cytostatic, antiinflammatory and antimicrobial activities. This oligonucleotide sequence is an antisense oligo used to inhibit expression of human oestrogen receptor alpha of the invention.
                                                                                                                                                                                                                                                                                                                                                               Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            important for bone maintenance and plays a protective role in the cardiovascular system, as well as being required for normal sexual maturation through promoting growth and differentiation. Splice variants of ESR-alpha, however, have been associated with various cancers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 3; Page 77; 232pp; English:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New antisense compound targeted to nucleic acid encoding estrogen receptor alpha and inhibiting expression of estrogen receptor alpha, useful for treating a disease or condition e.g. a hyperproliferative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         antimicrobial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2003-577322/54.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WO2003052072-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo
                                                                                                                   AAD61663
                                                                                                                                                 AAD61663 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              oestrogen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Dobie KW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            18-DEC-2001; 2001US-00027983.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          13-DEC-2002; 2002WO-US040083
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       modified_base
                                                                                   15-JAN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                3729 CCCGGCAAGCAGGTGCCC 3746
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        sapiens
                                                                                                                                                                                                                                   20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ntion relates to human oestrogen receptor alpha (ESR-alpha), are antisense oligonucleotides that modulate its expression. The receptor alpha protein is also known as oestrogen receptor 1, RR3Al. Oestrogen, the steroid hormone ligand of ESR-alpha, is
                                                 coupled receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Roach MP
                                                                                                                                                                                                                                                                                                                                                               BP; 2 A; 6 C; 8 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                Conservative
                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5-methylcytidines"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /note= "OTHER= phosphorothioate backbone, where 1-5 and 2' methoxyethyl nucleotides. All cytidines
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /mod_base= OTHER
/note= "OTHER= pl
                                                                                                                                                                                                                                                                                                               0.3%;
or; GPCR; infection; neoplastic process;
infarction; atherosclerosis; angina pectoris;
                                                  (GPCR)
                                                                                                                                                                                                                                                                                                0
                                                                                                                                                                                                                                                                                                             Score 14.8; DB 1;
Pred. No. 9.9e+02;
                                                                                                                                                                                                                                                                                                Mismatches
                                                  related primer
                                                                                                                                                                                                                                                                                                                             DB 1;
                                                  #3
                                                                                                                                                                                                                                                                                                                             Length
                                                                                                                                                                                                                                                                                                                                20
                                                                                                                                                                                                                                                                                              0;
                                                                                                                                                                                                                                                                                                Gaps
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JP2003235571-A

Synthetic.

iomo sapiens.

26-AUG-2003.

Novel polynucleotide useful for detecting single nucleotide polymorphisms

WPI; 2003-820454/77.

12-FEB-2002; 2002JP-00034717

KAGAKU GIJUTSU

SHINKO JIGYODAN

12-FEB-2002; 2002JP-00034717

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RESULT 1479
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Best Local S
Matches 16
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention relates to novel G-protein coupled receptors (GPCRs) and the nucleic acids encoding them. The invention is useful for treating viral, bacterial and fungal infections, inflammatory and neoplastic processes, pain, diabetes, hypertension, osteoporosis, cancer angina pectoris, myocardial infarction and atherosclerosis. The present sequence is G-protein coupled receptor (GPCR) related primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              hypertension; osteoporosis; antibacterial; cytostatic; fungicide; pain; diabetes; cancer; virucide; analgesic; cardiant; primer; ss.
human; single nucleotide polymorphism; microarray; primer; PCR.
                                                       Single nucleotide polymorphism detection primer, SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; Page 63; Opp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Novel G-protein coupled receptor useful for treating viral infections, bacterial infections, fungal infections, cancer, diabetes, hypertension, osteoporosis, angina pectoris, myocardial infarction, atherosclerosis.
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                                                                                                                                       ADF87702;
                                                                                                                                                                               ADF87702 standard; DNA; 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                21-JUN-2001; 2001US-00885453
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                                                                                                                                                                                                                                                                                                                                                            Local Similarity
es 16; Conserv
                                                                                                                                                                                                                                                                                                                1245 CTCCGTCCACGTCCTCAG
                                                                                                                                                                                                                                                                                  w
                                                                                                                                                                                                                                                                                                                                                                                                                                          20
                                                                                                                                                                                                                                                                               CTCTGTCTACGTCCTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                      BP;
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                                                                                                (first entry)
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                                                                                                                                                                                                                                                                                                                                                                              88.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                        7 C; 3
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                                                                                                                                                                                                                                                                                                                     1262
                                                                                                                                                                                                                                                                               20
                                                                                                                                                                                                                                                                                                                                                            0;
                                                                                                                                                                                                                                                                                                                                                                                                                                          G; 8 T; 0 U; 0
                                                                                                                                                                                                                                                                                                                                                                              Score 14.8;
Pred. No. 9.
                                                                                                                                                                                                                                                                                                                                                              Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                .9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                   DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                          Other;
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                                                                                                                                                                                                                                                                                                                                                                                                 Length 20;
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                                                           No 1285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           is useful for
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                      88
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ADB49443
ID ADB
XX
                                                       RESULT 1476
                                                                                                                                                                                                            Query Match
Best Local :
                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                             This invention relates to novel methods for modulating the expression of connective tissue growth factor (CTGF) by antisense oligonuclectides. CTGF has been mapped to human chromosome region 623.1, and is also known as ctgrofact, fibroblast inducible secreted protein, fisp-12, NOV2, insulin-like growth factor binding protein-related protein 2, IGFBP-rP2, IGFBP-8, Hcg24 and ecogenin. It is known to stimulate DNA synthesis and promote chemotaxis of fibroblasts, however, it is also upregulated in acute lymphoblastic leukaemia and in tumour or endothelial cells associated with the vasculature. Accordingly, antisense oligonucleotides that inhibit the expression of CTGF in cells or tissues can be used in gene therapy to treat various conditions including hyperproliferative disorders (particularly cancer, e.g. breast, prostate or renal cancer), pulmonary fibrosis, renal fibrosis, seleroderms and atherosclerosis. As
                                                                                                                                                                                                                                                                                                    such, the present invention describes these antisense oligos as having cytostatic, dermatclogical and antiarteriosclerotic activities. This oligonucleotide sequence is a chimeric phosphorothioate antisense oligowith 2' MOE wings and a deoxy gap, which is used to inhibit expression human CTGF of the invention.
                   ADB49443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New antisense oligonucleotides for modulating connective tissue growth factor expression, particularly useful for treating cancers (e.g. breator prostate cancer), pulmonary or renal fibrosis, scleroderma or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  IGFBP-8; Hcs24; ecogenin; acute lymphoblastic leukaemia; gene therapy; hyperproliferative disorder; cancer; pulmonary fibrosis; renal fibrosis; scleroderma; atherosclerosis; cytostatic; dermatological;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 chromosome 6q23.1; ctgrofact; fibroblast inducible secreted pr
fisp-12; NOV2;
insulin-like growth factor binding protein-related protein 2;
IGFBP-8; Hcs24; ecogenin; acute lymphoblastic leukaemin; gene
                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10-DEC-2001; 2001US-00006191.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           09-DEC-2002; 2002WO-US038618
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 03-JUL-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    antiarteriosclerotic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (ISIS-) ISIS
                                                                                                                                                   3354 AAGGACTCCCCGCTGGGG 3371
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           sapiens.
                                                                                                                                                                                          16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WA,
                                                                                                                                                                                                            Similarity
                   standard;
                                                                                                                                                                                                                                                                   20
                                                                                                                                                                                                                                                                   BP; 4 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Page 86; 139pp; English.
                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /note= "OTHER= phosphorothioate backbone, where 1-5 and 16-20 are 2' methoxyethyl nucleotides. All cytidines are 5-methylcytidines" \frac{1}{2}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
1. .20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /*tag=
                                                                                                                                                                                                        0.3%;
                   DNA;
                                                                                                                                                                                                                                                                 6 C; 6 G; 4 T; 0 U; 0 Other;
                   20
                                                                                                                18
                                                                                                                                                                                        0;
                                                                                                                                                                                                            Score 14.8; DB 1;
Pred. No. 9.9e+02;
                                                                                                                                                                                      Mismatches
                                                                                                                                                                                                                            DB 1;
                                                                                                                                                                                                                          Length 20;
                                                                                                                                                                                        Indels
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                                                                                                                                                                                        Gaps
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WPI; 2003-764570/72.
                                                                                                                                                                                                                                                                                                                                    anti-viral; inflammation; asthma; arthritis; diverticulitis;
vasoconstriction; heart inflammation; immunogenic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADB49443;
                                     Holloway JL, Gao Z,
                                                                                                                       10-NOV-1999;
                                                                                                                                                                 09-NOV-2000; 2000US-00710794.
                                                                                                                                                                                                          03-JUN-2003.
                                                                                                                                                                                                                                                   US6573069-B1
                                                                                                                                                                                                                                                                                             Mus musculus
                                                                                                                                                                                                                                                                                                                                                                               primer; mouse;
                                                                                                                                                                                                                                                                                                                                                                                                                    Mouse Zmsel sequencing primer ZC19270
                                                                                (ZYMO ) ZYMOGENETICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                                         99US-0164685P
                                                                                                                                                                                                                                                                                                                                                                             ss; sequencing; Zmse1; wound healing; anti-bacterial;
                                                                                  INC.
                                       Whitmore
                                         TE;
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New isolated polynucleotide encoding Zmsel polypeptide having a Cdc42/Rac interactive binding (CRIB) motif, useful for diagnosing and treating cancer and inflammatory conditions.

Example 4; Col 79-80; 55pp; English.

individuals at the Zmsel chromosomal locus. The Zmsel polypeptides are useful as research reagents and as an amino acid source for cell culture. The Zmsel present in heart and skeletal muscle are useful in promoting wound healing effects and exhibits anti-bacterial or anti-viral effects. The Zmsel polypeptides are useful for treating inflammatory conditions such as asthma, arthritis, diverticulitis. The Zmsel polypeptide is useful for treating treat inflammation. The Zmsel polypeptide is useful as an immunogen to elicit an immune response in an animal. The Zmsel polypeptide is useful as an immunogen to elicit an immune response present sequence represents a mouse Zmsel sequencing primer. The invention relates to an isolated polynucleotide encoding a Zmsel polypeptide. Cells expressing the nucleic acid are useful for producing polypeptides. The nucleic acid is useful as probes or primers to clone on coding regions of Zmsel gene. The nucleic acid is also useful for detecting allelic differences between diseased or non-diseased detecting allelic differences between diseased or non-diseased ñ,

Sequence 20 BP; თ A; 6 C; 7 G; 2 T; 0 U; 0 Other;

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 밁
                             Matches
                                    Query Match
Best Local (
              563 GCTGCTTTCCAGGACAGG
                             16;
w
                                     Similarity
 GCTGCATCCCAGGACAGG
                             Conservative
                                     88.9%;
                                           0.3%;
              580
                            0
20
                                    Score 14.8;
Pred. No. 9
                             Mismatches
                                     9.9e+02
                                            DB 1;
                             2
                                           Length
                             Indels
                             0
                             Gaps
                             0
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RESULT 1477 ADB81408/c ADB81408 standard; DNA; 20 ВÞ

04-DEC-2003 ADB81408 (first entry)

밁 S

Human oestrogen receptor alpha antisense oligonucleotide DNA (SeqID

antisense; human; ss; oestrogen receptor alpha; ESR-alpha;
oestrogen receptor 1; ESR1; NR3A1; bone maintenance;
cardiovascular system; cancer; gene therapy; hyperprolifer

formation; cancer; gene therapy; hyperproliferative disease; prmation; infection; cytostatic; antiinflammatory;

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CC transport Allease like protein polypeptide is also claimed. The method comprises culturing the host cell under conditions suitable for the comprises culturing the host cell under conditions suitable for the cexpression of the polypeptide, and recovering the polypeptide from the cc expression of the polypeptide from the cc mostropic, antiparkinsonian, cardiant, analgaesic, antiarrhythmic, conversive, nephrotropic, uropathic, cytostatic, vasotropic, and cc attivity. The polynucleotide may have a use in gene therapy. CC The polynucleotide and polypeptide are useful in identifying test compounds which may act as agonists or antagonists at the receptor site cc compounds which can be regulated to provide theraputic effects. The expression vector or reagent is useful in the preparation of a medicament for cc disease, e.g. a central nervous system (CNS) disorder, a cardiovascular cc (All claimed.) In particular, these diseases are Alzheimer's disease, cancer, a genitourinary disorder or a haematological disorder. (CAll claimed.) In particular, these diseases are Alzheimer's disease, conference, dementia, pain, congestive heart failure, myocardial infarction, ventricular arrhythmias, hypertension, renal failure, myocardial conference, etc. These are also useful for disgnosing, preventing or cc ameliorating the diseases. The present sequence represents a PCR primer cc used to amplify the human prolyl hydroxylase gene.
                                                                                                                                                                                                                                                                                                                              RESULT 1474
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local S
Matches 16
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09-MAY-2002;
29-AUG-2002;
        fisp-12; NOV2; insulin-like growth factor binding protein-related protein 2; IGFBP-rP2; IGFBP-8; Hcs24; ecogenin; acute lymphoblastic leukaemia; gene therapy; hyperproliferative disorder; cancer; pulmonary fibrosis; renal fibrosis; scleroderma, atherosclerosis; cytostatic; dermatological;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 20
                                                                                                                                                                    Human connective tissue growth factor antisense oligo DNA (SeqID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New human cation transport ATPase-like polynucleotide and its encoded protein, useful for identifying modulators of cation transport ATPase-like protein activity and in gene therapy for preventing or treating e
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              19-FEB-2003; 2003WO-EP001669
                                                                                                                                                                                                               20-NOV-2003
                                                                                                                                                                                                                                                                                          ADB25698 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to a novel isolated polynucleotide which encodes cation transport ATPase-like polypeptide. A method for producing a cat:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 18; Page 90; 119pp; English.
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antiarteriosclerotic
                                                                                                                 chromosome
                                                                                                                                  antisense; human; ss; connective tissue
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     16;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
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                                                                                                           6q23.1; ctgrofact;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BP; 6 A; 5 C; 6 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.3%;
ilarity 88.9%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2002US-0357840P.
2002US-0378654P.
2002US-0406658P.
                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                          20
                                                                                                                                                                                                                                                                                          ВР
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 14.8;
Pred. No. 9.
                                                                                                               fibroblast
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9.9e+02;
                                                                                                                               growth factor; CTGF;
                                                                                                             inducible secreted protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 1; Length 20;
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RESULT 1475
ADB25678
ID ADB2567
XX
AC ADB2567
XC ADB2567
XC ADB2567
XC ADB267
CT 20-NOVXX
DE Human C
XX
ANTIBER

ADB25678

standard;

DNA;

20-NOV-2003 ADB25678;

(first entry)

antisense; human; ss; connective tissue growth factor; CTGF Human connective tissue growth factor antisense oligo DNA (SeqID 밁 S

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CC connective tissue growth factor (CTGF) by antisense oligonucleotides.

CC CTGF has been mapped to human chromosome region 623.1, and is also known as ctgrofact, fibroblast inducible secreted protein, fisp-12, NOV2, consulin-like growth factor binding protein related protein 2, IGFBP-12, NOV2, consulin-like growth factor binding protein related protein 2, IGFBP-172, IGFBP-172, IGFBP-184, Hcs24 and ecogenin. It is known to stimulate DNA synthesis and CC promote chemotaxis of fibroblasts, however, it is also upregulated in acute lymphoblastic leukaemia and in tumour or endothelial cells associated with the vasculature. Accordingly, antisense oligonucleotides CC that inhibit the expression of CTGF in cells or tissues can be used in CC gene therapy to treat various conditions including hyperproliferative CC disorders (particularly cancer, e.g. breast, prostate or renal cancer), pulmonary fibrosis, renal fibrosis, scleroderma and atherosclerosis. As CC such, the present invention describes these antisense oligos as having CC oligonucleotide sequence is a chimeric phosphorothicate antisense oligo with 2 MCS wings and a deoxy gap, which is used to inhibit expression of contents of the invention of the contents of th
                                                                                                                                                                                       Matches
                                                                                                                                                                                                                         Query Match
Best Local
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                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This invention relates to novel methods for modulating the expression of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 3; Page 86; 139pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2003-559091/52.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              09-DEC-2002; 2002WO-US038618
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                                                                                                                                                                                                                                  Local Similarity
                                                                                           283
                                                                                                                                                                                                                                                                                                                                                                                                                                                                CTGF of the invention.
                                                                                                                                                                                       16;
                                                                                      rerererererer
                                                                                                                                                                                                                                                                                                                                                                20 BP; 2 A; 8 C; 2 G; 8 T; 0 U; 0 Other;
TCTCTCACTCTCTGGCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Watt AT;
                                                                                                                                                                                       Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Location/Qualifiers
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                                                                                                                                                                                                                         0.3%;
                                                                                      300
18
                                                                                                                                                                             0;
                                                                                                                                                                                  Score 14.8; DB 1;
Pred. No. 9.9e+02;
0; Mismatches 2;
                                                                                                                                                                                                                                                                              Length
                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                   20;
                                                                                                                                                                                       0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g. breast
                                                                                                                                                                                  Gaps
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AAD57620/c
ID AAD5762
XX AAD5762
XX AAD5762
XX AAD5762
XX Human P
XX Human P
XX Human P
XX PLSCR3;
KW AUCOImm
KW AUCOImm
KW phospho
XX AUCOImm
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XX Synthet
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FT modifie
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to antisense compounds, compositions and methods for modulating the expression of human farmesoid X receptor (FXR). FXR is also known as NRIH4, retinoid X receptor-interacting protein 14 (RIP14) and bile acid receptor (BAR). The antisense oligonucleotide is useful for inhibiting the expression of human FXR in cells or tissues. It is particularly useful for treating or preventing a disease or condition associated with FXR in a human, e.g. cardiovascular disease, atheroscierosis or hypercholesterolaemia. The antisense compound is useful for diagnostics, therapeutics, prophylaxis, or as research reagents or kits. It is also used in gene therapy. The present sequence is an antisense oligonucleotide targetted to human FXR DNA. This sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New antisense oligonucleotides for modulating human farnesoid X receptor (FXR) expression, useful for treating conditions associated with FXR in humans, e.g. cardiovascular disease, atherosclerosis or
                                             modified_base
                                                                                              Synthetic
                                                                                                           Homo sapiens.
                                                                                                                                            phosphorothicate
                                                                                                                                                             autoimmune
                                                                                                                                                                          Human; phospholipid scramblase 3; gene therapy; HuPLSCR3; MuPLSCR3; PLSCR3; neurodegenerative disease; hyperproliferative disorder;
                                                                                                                                                                                                                         Human PLSCR3
                                                                                                                                                                                                                                                        20-NOV-2003
                                                                                                                                                                                                                                                                                       AAD57620;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        13-NOV-2002; 2002WO-US036691
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                hypercholesterolemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         15-NOV-2001; 2001US-00002491
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO2003044167-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                 1493
                                                                                                                                                                                                                                                                                                                                                                                                   20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ç
                                                                                                                                                                                                                                                                                                                                                                                                                                 GAAGTCCAAGGATGGTTC 1510
                                                                                                                                                                                                                                                                                                                                                                                                   GAAATCCAAGGATGTTTC
                                                                                                                                           disorder; neuroprotective; immunosuppressive; antisense;
nioate backbone; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           illustrate the method of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BP; 5 A; 4 C; 5 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Page 73; 127pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                       antisense oligonucleotide, ISIS #196438
                                                                                                                                                                                                                                                      (first entry)
                                                            Location/Qualifiers
'note= "Phosphorothioate backbone; All cytidine residues
              mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /note= "2'methoxyethyl nucleotides"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /*tag= c
/mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0.3%;
                                                                                                                                                                                                                                                                                                                     ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                              0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 14.8;
Pred. No. 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9.9e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                            0
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8
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ADA15820/c
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                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention is directed to compounds, particularly antisense oligonuclectides, which are targetted to a nucleic acid encoding human phospholipid scramblase 3 (also known as PLSCR3, huPLSCR3 and MuPLSCR3) and which modulates the expression of phospholipid scramblase 3. The compounds of the invention are useful for preparing compositions for treating neurodegenerative diseases e.g. hyperproliferative or autoimmune disorders. The invention is also used in gene therapy. The present sequence is an antisense oligonucleoxide targetted to human PLSCR3 DNA
                                                                                                     antiparkinsonian; cardiant; analgaesic; antiarrhythmic; hypotensive; nephrotropic; uropathic; cycostatic; vasotropic; antianaemic; gene therapy; central nervous system disorder; cardiovascular disorder; cancer; genitourinary disorder; haematological disorder; ss; primer; PCR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New compound, useful for preparing a composition for treating hyperproliferative or autoimmune disorders, comprises a sequence to a nucleic acid encoding human phospholipid scramblase 3.
                                                                 Synthetic
                                                                                                                                                               enzyme; cation transport ATPase-like; neuroprotective; nootropic;
                                                                                                                                                                                          Human prolyl hydroxylase reverse
                                                                                                                                                                                                                     20-NOV-2003
                                                                                                                                                                                                                                                                            ADA15820 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 20 BP; 5 A; 5 C; 4 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             04-DEC-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        04-DEC-2002; 2002WO-US038521.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      modified_base
                                                                                                                                                                                                                                                ADA15820;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 15; Page 79; 107pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2003-569053/53.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Dobie KW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     12-JUN-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             :
                                                                                                                                                                                                                                                                                                                                                               1406 CACCTTTGAGGTGAAGGC 1423
                                                                                                                                                                                                                                                                                                                                               20
                                                                                                                                                                                                                                                                                                                                               CAACTTTGAGGTGAAGAC
                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2001US-00006972
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       are 5-methylcytidines"
1. .5
/*tag= b
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /note= "2'-methoxyethyl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /*tag= c
/mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                  88.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                               0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "2'-methoxyethyl nucleotides"
                                                                                                                                                                                                                                                                            ВP
                                                                                                                                                                                                                                                                                                                                               w
                                                                                                                                                                                                                                                                                                                                                                                                    0;
                                                                                                                                                                                                                                                                                                                                                                                                                  Score 14.8; DB 1
Pred. No. 9.9e+02
                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                          PCR primer Primer2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                nucleotides"
                                                                                                                                                                                                                                                                                                                                                                                                                               DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                            Length
                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                    0
                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
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WO2003070758-A1 Homo sapiens

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                                                                                                                                                                        RESULT 1470
AAD53145/c
                                                                                                                                                                                                                                                                                                                                                                       Sequences ABZ74897-ABZ74942 represent antisense oligonucleotides targeted CC to the human or murine acyl coenzyme A cholesterol acyltransferase-1 gene, which inhibit its expression. The antisense oligonucleotides were designed to target different regions of the human or murine acyl coenzyme A cholesterol acyltransferase-1 RNA, and were analysed for their effect on acyl coenzyme A cholesterol acyltransferase-1 mRNA levels by contributive real-time PCR. Acyl coenzyme A cholesterol acyltransferase (ACAT) enzymes catalyse the synthesis of cholesterol acyltransferase cholesterol and fatty acyl-CoA, and are also involved in regulating the concentration of cellular free sterols. The murine acyl coenzyme A cholesterol acyltransferase-1 gene is located on chromosome 1. The chlesterol acyltransferase-1 gene is located on chromosome 1. The collesterol des of the invention are useful for the prevention and creatment of conditions associated with acyl coenzyme A cholesterol acyltransferase-1, such as disorders involving abnormal lipid or cholesterol metabolism, e.g., atherosclared for cardiovascular disease.
                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI;
                       Unidentified
                                                                                                                                                            AAD53145 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                            Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 3; Page 92; 117pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New antisense oligonucleotides targeted to a nucleic acid encoding acyl coenzyme A cholesterol acyltransferase-1, useful for treating a disease/condition involving abnormal lipid or cholesterol metabolism,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              modified_base
                                                                                   Collagen II
                                                                                                            28-MAY-2003
                                                                                                                                     AAD53145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-AUG-2001; 2001US-00920394
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      17-JUL-2002; 2002WO-US022696
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WO2003012144-A1
                                                                                                                                                                                                                                                                                                                                                     expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .g. atherosclerosis.
                                                                                                                                                                                                                                             1430 TCTGGGGATTCCTCAGAA 1447
                                                                                                                                                                                                                                                                                                                                                  are also useful in research and diagnostics for modulating sssion of acyl coenzyme A cholesterol acyltransferase-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2003-239532/23.
                                                                                                                                                                                                                           19
                                               primer;
                                                                                                                                                                                                                           TCTGGGGATTCTTCAGCA 2
                                                                                   DNA
                                                                                                                                                                                                                                                                                                                            BP; 6 A;
                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Graham MJ,
                                            cartilage regeneration; er; collagen II; ss.
                                                                                                            (first
                                                                                   specific RT-PCR primer, COL2R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cytosines
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /mod_base= OTHER
/note= "2'-methoxyethyl (2'-MOE)
cytosines are 5-methylcytosine"
                                                                                                            entry)
                                                                                                                                                                                                                                                                                      0.3%;
                                                                                                                                                                                                                                                                                                                           5 C; 5 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Lemonidia KM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             are 5-methylcytosine
                                                                                                                                                           ВP
                                                                                                                                                                                                                                                                         0
                                                                                                                                                                                                                                                                                      Score 14.8; DB 1;
Pred. No. 9.9e+02;
                                                                                                                                                                                                                                                                          Mismatches
                                                          cell therapy; reverse
                                                                                                                                                                                                                                                                                                  DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            nucleotides.
                                                                                                                                                                                                                                                                                                Length 20;
                                                                                                                                                                                                                                                                          Indels
                                                          transcription
                                                                                                                                                                                                                                                                          0
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                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                 the
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RESULT 1471
AAL61340/c
ID AAL6134
XX AAL6134
XX AAL6134
XX Human F
XX Human F
XX Human;
KW retinoi
KW retinoi
KW RIP14;
XX Synthet
XX Synthet
XX Synthet
XX FF modific
FT modific
FT FT FT FT
FT FT FT FT
FT FT FT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 for use in cartilage regeneration. The method involves collecting data indicating chondrocyte cell viability for use in cartilage regeneration and providing a certification of chondrocyte cell viability including the data. The method is useful for certifying viability of chondrocyte cells for use in cartilage regeneration, particularly for autologous chondrocyte implantation. The method is useful for producing a quality assurance certificate for a given chondrocyte cell culture. It may also be used for determining the likelihood of hyaline cartilage regeneration in a patient with a cartilage defect. The invention is also useful for cell therapy. The present sequence is collagen II DNA specific RT-PCR primer used for the characterisation of chondrocytes. This sequence is used in the exemplification of the invention
                                                                                                                                                                                                                            Homo sapiens.
Synthetic.
                                                                                                                                                                                                                                                                                                            Human; farnesoid X receptor; FXR; cardiovascular disease; gene therapy; atherosclerosis; hypercholesterolaemia; NR1H4; bile acid receptor; BAR; retinoid X receptor-interacting protein 14; phosphorothioate backbone;
                                                        modified_base
                                                                                                                                                           Key
modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAL61340 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 20 BP; 3 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 1; Col 11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Certifying chondrocyte cells for cartilage regeneration, particularly for autologous chondrocyte implantation, comprises collecting and assessing indicators of chondrocyte cell viability in a given chondrocyte cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       30-MAR-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                           22-SEP-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAL61340;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to a novel method for certifying chondrocyte cells for use in cartilage regeneration. The method involves collecting data
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Certifying
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         28-NOV-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2990
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            16;
                                                                                                                                                                                                                                                                                               antisense;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AGAAACGCAGCTGCCCAT 3007
                                                                                                                                                                                                                                                                                                                                                                                              antisense oligonucleotide,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ž
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2001US-0280242P
                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2002WO-IB002752
                                                                             /mod_base= OTHER
/note= "Phosphorothioate
methylcytidines"
                     /*tag=
/mod_ba
                                                                                                                                                                                     Location/Qualifiers
                                                                                                                                                                                                                                                                                               88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5 C; 6 G; 6 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ВP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 14.8;
Pred. No. 9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                  ISIS 145287
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9.9e+02
                                                                                                       backbone;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                       A11
                                                                                                       cytidines
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0,
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_base= OTHER == "2'methoxyethyl nucleotides"

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SACCCCCCCX
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ACC46968
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention relates to a composition comprising at least one extracted growth factor obtained from cultured chondrocytes. The composition is considered osteopathic and a growth factor regulator and useful for treating osteogenesis, tenogenesis, chondrogenesis, bone, tendon and cartilage defect. The present invention relates to a primer selected from separate exons of interest and used during the
                                                                                                                                                                                                                          Phospholipase A2 group IIA; synovial; antisense modulation; inflammation; phospholipase A2 group IIA inhibitor; phosphorothicate; antinflammatory; antidiabetic; cytostatic; antipsoriatic; vaccine; gene therapy; cancer; psoriasis; diabetes; as.
          WO200297133-A1
                                                                                                           modified_base
                                                                                                                                                                                          Synthetic
                                                                                                                                                                                                      Homo sapiens.
                                                                                                                                                                                                                                                                                Human phospholipase A2 antisense oligonucleotide SEQ ID NO:65.
                                                                                                                                                                                                                                                                                                         05-JUN-2003
                                                                                                                                                                                                                                                                                                                                                     ACC46968 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Composition useful for treating e.g. osteogenesis, tenogenesis, chondrogenesis comprises a growth factor obtained from cultured
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2003-421141/39.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      24-SEP-2001; 2001US-0324453P
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                                                                modified_base
                                                                                                                                                         modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        chondrocytes.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          charcacterisation of chondrocytes
                                                                                                                                                                                                                                                                                                                                                                                                                                   2990
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2; Page 14; 20pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                          AGAAACGCAGCTGCCCAT 3007
                                                                                                                                                                                                                                                                                                                                                                                                             AGAAACACTGCTGCCCAT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20 BP; 3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        0.3%;
larity 88.9%;
Conservative
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                                                                                                                                                                    Location/Qualifiers
                                                                                                                        note=
                                                                                                                                   mod.
                                 note=
                                                                          note=
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                                                                                                                                                                                                                                                                                                                                                     DNA;
                                                                                                                                                                                                                                                                                                         entry)
                                                                                                                       _base= OTHER
e= "phosphorothioate backbone"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    5 C; 6 G; 6 T; 0 U;
                           base= OTHER
== "2'-O-methoxyethyl
                                                                           "2'-O-methoxyethyl
                                                       ი
                                                                                                    ۵
                                                                                                                                                                                                                                                                                                                                                     20
                                                                                        OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                        0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 14.8; I
Pred. No. 9.9e
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ,9e+02;
                               (2'-MOE) gapmer"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1;
                                                                           (2'-MOE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                           gapmer"
                                                                                                                                                                                                                                                                                                                                                                                                                                                        0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                       0,
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RESULT 1469
ABZ74929/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention describes a compound (I) comprising 8-50 cnucleobases which is targeted to a 5 untranslated region (UTR), coding, coding, or the present invention of a nucleic acid molecule encoding phospholipase 3 UTRO or intron region of a nucleic acid molecule encoding phospholipase call group IIA (synovial), where the compound specifically hybridises with and inhibits the expression of phospholipase A2, group IIA (synovial). Calls odescribed: (1) a composition comprising the compound and a carrier or diluent; (2) a method of inhibiting the expression of phospholipase A2, group IIA in cells or tissues; and (3) a method of treating an animal having a disease or condition associated with phospholipase A2, group IIA (synovial). (I) has antiinflammatory, antidiabetic, cytostatic and CC (synovial). (I) has antiinflammatory, antidiabetic, cytostatic and CC therapy. The compound (I) can be used for preparing a composition for treating or preventing inflammation, cancer, psoriasis or diabetes. The present sequence represents a human phospholipase A2 group IIA (synovial) chimeric phosphorthioate antisense oligonucleotide, which is used in an example from the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local
                                                                                                                                                                                                         Mouse; murine; acyl coenzyme A cholesterol acyltransferase-1; chomosome 1; cholesterol metabolism; free sterol regulation; cholesterol metabolism disorder; lipid metabolism disorder; atherosclerosis; cardiovascular disease; cardiant; expression phosphorothioate; antisense oligonucleotide; ss.
                                                                        modified_base
                                                                                                                                                                                                                                                                                                                                                                ABZ74929;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New compound that hybridizes with and inhibits the expression of Phospholipase A2, group IIA, useful for preparing a composition treating or preventing inflammation, cancer, psoriasis or diabet
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI;
                                                                                                                                 modified_base
                                                                                                                                                                                Mus musculus
                                                                                                                                                                                                                                                                                                    Mouse acyl coenzyme A cholesterol acyltransferase-1 antisense oligo
                                                                                                                                                                                                                                                                                                                                                                                            ABZ74929
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               25-MAY-2001; 2001US-00865866
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             21-MAY-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           05-DEC-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (-SISI)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   380
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ω
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   16;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ISIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         trom
                                                                                                                                                                                                                                                                                                                                                                                              standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAGCTGGTGGCAGCAGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Page 87; 135pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Wyatt JR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2002WO-US016135
                                                                                                                                                                                                                                                                                                                                    (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           7 A;
/*tag= b
/mod_base= OTHER
/note= "2'-methoxyethyl (2'-MOE) nucleotides.
                                                                        /note= "Phosphorothioate linkages"
1. .5
                                                                                                     /*tag= a
/mod_base= OTHER
                                                                                                                                                 Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                              DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0.3%;
                                                                                                                                                                                                                                                                                                                                  entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6 C; 6
                                                                                                                                                                                                                                                                                                                                                                                              20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           G; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  397
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 14.8; D
Pred. No. 9.9e
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ή.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ç,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            .9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                      #49.
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All 2'

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   gene from a subject, and detecting the presence or absence of one or more variations in the ADAMTS13 gene. The method of the invention has thrombolytic and haemostatic civity. The methods and compositions of the present invention are useful for the diagnosis and treatment of, and/or analysing risks for thrombotic thrombocytopenic purpura. The present sequence is used in the exemplification of the invention
                                                                                                                                                            ss; cytostatic; antiinflammatory; immunomodulator; antisense; gene therapy; human; CD40 ligand; phosphorothioate; 2'MOE win autoimmune disorder; inflammatory disorder; apoptosis.
                                                                                                                                                                                                                     Oligo ISIS 124654 for CD40 ligand
                                                                                                                                                                                                                                                  30-MAY-2003
                                                                                                                                                                                                                                                                                                       ACC44063 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to a novel method for identifying subjects at risk of developing thrombotic thrombocytopenic purpura (TTP) disease, comprising providing nucleic acid having a disintegrin and metalloproteinase containing thrombospondin 1-like domains 13 (ADAMTS13)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Identifying risk of developing thrombotic thrombocytopenic disease, using a novel disintegrin and metalloproteinase cuthrombospondin 1-like domains genes and proteases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2003-268318/26.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ginsburg D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             16-AUG-2001; 2001US-0312834P.
16-AUG-2002; 2002US-00312834.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; thrombotic thrombocytopenic purpura; TTP; disintegrin; metalloproteinase; thrombospondin 1-like domains 13; ADAMTS13 thrombolytic; haemostatic; PCR; primer; RT-PCR; 5' RACE; 3' R
                       modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 1; Page 90; 98pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       27-FEB-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO2003016492-A2
                                                                                            misc_difference
                                                                                                                                      Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         16-AUG-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (UNMI ) UNIV MICHIGAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             sapiens.
                                                                                                                                     sapiens
                                                                                                                                                                                                                                                                                                                                                                                                         842
                                                                                                                                                                                                                                                                                                                                                                             18
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
                                                                                                                                                                                                                                                                                                                                                                                                         CGACCCTGAGGAGGACAC 859
                                                                                                                                                                                                                                                                                                                                                                            CAACCCTGAGGACGACAC 1
                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BP; 2 A; 4 C; 7 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Levy G,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2002WO-US026285
1.
/*tag=
                                      bonds"
                                                   /note= "contains
in the backbone
                                                                                                         Location/Qualifiers
                                                                               /*tag=
                                                                                                                                                                                                                                                                                                         DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Tsai
                                                 "contains phosphorothioate internucleotide bonds backbone replacing phosphodiester internucleotid
                                                                                                                                                                                                                                                                                                          20
             D.
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                                                                                                                                                                                                                                                                                                         ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                  0
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 14.8; DB 1;
Pred. No. 9.9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                    gene expression inhibition.
                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RACE; 3' RACE;
                                                                                                                                                                            2'MOE wings;
                                                    internucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    containing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                purpura
                                                                                                                                                                                                                                                                                                                                                                                                                                  0,
                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                              cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       88
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CC human CD40 ligand gene. The oligonuclectides contain either compounds of internucleotide bonds or have a pertide amide backbone replacing the usual phosphodiester contain phosphate backbone. The nucleotides flanking the central 10 cmucleotides have 2'-methoxyethyl nucleotides flanking the central 10 cmucleotides have 2'-methoxyethyl nucleotides (2'MOE wings) and the cytidine nucleotides are all 5-methylcytidines. The antisense compounds correctly accomplating the expression of CD40 ligand and for treating conditions associated with expression of CD40 ligand, e.g. condition arising from abstrant apoptosis. The antisense compounds are consisting are also useful for diagnostics, therapeutics, prophylaxis, e.g. to prevent correctly infection, inflammation or tunor formation, as research reagents and tits, and in distinguishing between functions of various members of a cological pathway. Oligonucleotides ACC44014-ACC44011 represent the continense oligonucleotides of the invention to inhibit expression of the
                                                                                                                                                                                                                                                                                                                                                                                                                                     New antisense oligonucleotides targeted to nucleic acids encoding a CD40 ligand, useful in diagnostic and research applications, or for treating diseases associated with expression of CD40 ligand, e.g. cancer or autoimmune disorder.
                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                           The invention relates to novel antisense oligonucleotide targeted to
                                                                                                                                                                                                                                                                                                                                                                                                       Example 15; Page 79; 108pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2003-239305/23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     15-JUL-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  30-JAN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO2003008433-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       18-JUL-2001;
           278
                                                                                                                             CD40 ligand gene
                                       1 Similarity
CTTTCTCTCTCTCTCTCT
                                                                                                   20 BP;
                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2001US-00909595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Baker
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2002WO-US022635
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16. .20
                                                                                                   9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             'mod_base= 2'-O-methoxyethyl nucleotides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        *tag=
                                                                                                   A; 1 C; 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BF,
                                                       88.9%;
                                                                   0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "all
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Wyatt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ń
         295
                                       ٥,
                                                                                                   G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cytidine nucleotides are 5-methylcytidine"
                                                     Score 14.8;
Pred. No. 9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         -O-methoxyethyl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Я,
                                        Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Davis SE
                                                     9.9e+02
                                                                     DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          nucleotides
                                                                   Length
                                        Indels
                                                                     20
                                        0
                                       Gaps
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RESULT 1467
ACC49978/c
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                                                                                                                                                                                            S
                                                                                                                                                                                                                 Query Match
Best Local S
Matches 16
        Synthetic
                            Osteopathic; growth factor regulator; osteogenesis; chondrogenesis; bone; chondrocytes; primer; PCR; ss
                                                                                                                       ACC49978
                                                           COL2R primer used during the charcacterisation of chondrocytes.
                                                                                14-JUL-2003
                                                                                                    ACC49978;
                                                                                                                                                                         20
                                                                                                                        standard; DNA;
                                                                                                                                                                          CTTTCAGTCTCTCTCTCT 3
                                                                                (first entry)
                                                                                                                        20
                                      tenogenesis,
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ABX12661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
Matches 16; Conser
                                                                      Query Match
Best Local
                                                                                                                                       The invention describes a method for amplifying a nucleic acid fragment comprises using a non-cyclic single-stranded target nucleic acid as template and performing a strand displacement primer elongation reaction with use of a first primer having a sequence complementary to the target nucleic acid fragment to form a nucleic acid fragment. The method is for amplifying non-cyclic nucleic acid fragments, which is applicable in e.g. gene analysis, disease diagonats and identification of pathogenic microbes. The amplification can be efficiently performed. This sequence represents a primer associated with the non-cyclic nucleic acid amplification method described in the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   presence or absence of the target nucleotide sequences. ABI82074 to ABI97546 represent oligonucleotide sequences used in the exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                            Method for amplifying non-cyclic nucleic acid fragments with single-
stranded target nucleic acid fragment as template, applicable in e.g.
gene analysis, disease diagnosis and identification of pathogenic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Nucleic acid amplification; non-cyclic single-stranded nucleic acid; strand displacement primer elongation reaction; gene analysis; disease diagnosis; pathogenic microbe identification; PCR; primer; si
                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                     Example; Page 13; 31pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2003-210362/20.
                                                                                                                                                                                                                                                                                                                                                                                                                                                               (WAKT ) WAKUNAGA PHARM CO LTD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          06-JUL-2001; 2001JP-00206389
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        08-JUL-2002; 2002WO-JP006911
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16-JAN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Non-cyclic nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           16-MAY-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ABX12661 standard; DNA;
                            1356
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     597
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  present
                                                                      Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTGGTGCGTGCCAGCCAG 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20 BP; 2 A; 7 C; 7 G; 4 T; 0 U; 0 Other;
                            CTGCACGAGGGTCCTGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CTCGTGCGTGCCAGCGAG 614
                                                                                                                 20
                                                                                                              BP; 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                               P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             acid amplification method related primer XPS1
                                                                   0.3%;
                                                                                                              5 C; 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.3%;
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 18
                                                       0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
                                                       Score 14.8; I
Pred. No. 9.9e
0; Mismatches
                                                                                                               G; 4 T; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 14.8; DB 1;
Pred. No. 9.9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                              Ç;
                                                                      9.9e+02
                                                                                                                 0 Other
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                                                                                   DB 1;
                                                                                  Length 20;
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RESULT 1464
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ABV7716
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AC ABV7716
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KW Transpo
KW Transpo
KW Primer;
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PF 21-MAY-
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PF 21-MAY-
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AC (AZIG-)
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The specification describes a transporter array which comprises a multiplicity of individual transporter polynucleotide spots stably associated with a surface of a solid support, where an individual transporter polynucleotide spot comprises a transporter polynucleotide spot comprises a transporter polynucleotide composition comprising a non-conserved region of a transporter polynucleotide family member, the spots representing at least two different regions of a transporter polynucleotide family member. The method is useful for identifying potential therapeutic, prophylactic and/or toxic agents for the treatment of diseases caused by an alteration in the expression profile of the transporter polynucleotides. PCR primers ABV71166-67 were used to amplify a non-conserved region of the rat GABA-1 transporter (GAT), designated 1-250. The amplified fragment was cloned, and used produce a transport array to demonstrate the method of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New transporter array with a non-conserved region of a transporter polynucleotide, useful for identifying therapeutic, prophylactic or agents in diseases with alteration in the expression profile of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABV77166 standard; DNA; 20 BP
                      Human ADAMTS13 5'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              28-NOV-2002
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                                                                           27-JUN-2003
                                                                                                                                                                                  ACC55377 standard; DNA; 20
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                                                                           (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 14.8; DB 1;
Pred. No. 9.9e+02;
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RESULT 1461
ABQ74629
ID ABQ7462
The present invention describes a method for identifying a compound that induces senescence in a mammalian cell comprising culturing the cell in the presence and absence of the compound, assaying expression of at least one cellular gene (G1a) from 56 or a gene (G2) from 64 genes, with corresponding accession numbers given in the specification, and identifying compounds that induce senescence when expression of (G1a) or expression of (G2) is lower, in the presence of the compound. Also described: (1) a compound that induces senescence in a mammalian cell; (2) assessing efficacy of a treatment of a disease or condition relating to abnormal cell proliferation or neoplastic cell growth; (3) treating a disease or condition relating to abnormal cell proliferation or neoplastic cell growth; (4) identifying a compound that inhibits senescence-associated induction of cellular gene expression. The compound is useful for treatming or for assessing efficacy of treatment of a disease or condition relating to abnormal cell proliferation or neoplastic cell growth. The compound of the invention has a growth-
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Matches 16
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           21-DEC-2000; 2000US-0257907P.
17-DEC-2001; 2001US-00257907.
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llarity 88.9%;
Conservative
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lferation; neoplastic cell growth; growth-inhibitory.
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RESULT 1462
ABI92928
ID ABI9292
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Matches 16
                                                                                                                                                The present invention describes a method (M1) for designing capture oligonucleotide probes (I) for use on a support to which complementary oligonucleotide probes (II) will hybridise with little mismatch, where (I) have melting temperatures within a narrow range. The method is useful for detecting infectious diseases caused by bacterial infectious agents e.g. Cryptococcus neoformans, Candida albicans and infectious agents e.g. Cryptococcus neoformans, Candida albicans and aspergillus fumigautus, viruses e.g. T-cell lymphocytotrophis cirus, Epstein-Barr virus and polio virus, and parasitic infectious agents selected from Onchoverva volvulus, Entamoeba histolytica and Daracunculus medinesis. The method is also useful for detecting genetic diseases such as 21 hydroxylase deficiency, Turner Syndrome and obseity defects.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          other growth-inhibitory primers which are used i
Detecting cancer involving oncogenes, tumour suppressor genes, or genes involved in DNA amplification, replication, recombination or repair, the cancer is specifically associated with a gene selected from BRCA1 gene, p53 gene, human papillomavirus types 16 and 18 and liver cancers. The method is also used for environmental monitoring, forensics and the food and feed industry, detecting comprises scanning (using e.g. a scanning electron microscope and infrared microscope) the support at the particular sites and identifying if ligation of the oligonucleotide probe sets occurred and correlating (using a computer) identified ligation to a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ligase detection reaction; LDR; p53; BKLAL; BROWN, ODESITY; infection; 21 hydroxylase deficiency; Turner Syndrome; obesity; oncogene; tumour suppressor; human papillomavirus; forensic; oncogene; tumour suppressor; human papillomavirus; forensic; oncogene; tumour suppressor; human papillomavirus; forensic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Capture oligonucleptide Zip ID#15 oligo #9.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             inhibitory effect without producing systemic side effects found with other growth inhibitory compounds. ABQ74611 to ABQ74734 represent PCR
                                                                                                                                                                                                                                                                                                                                                                           Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2002-034366/04.
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                                                                                                                                                                                                                                                                                                                                                                                                             complementary
                                                                                                                                                                                                                                                                                                                                                                                                                             Designing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Barany
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   luman; K-ras; PCF
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1451 GCAGCTCAAAGTCGACGT 1468
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               79
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                                                                                                                                                                                                                                                                                                                                                                                                                             capture oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                          Fig
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Zirvi M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           are used in an examp
                                                                                                                                                                                                                                                                                                                                                                                                             oligonucleotides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PCR primer; probe; capture probe; mu ion reaction; LDR; p53; BRCA1; BRCA2;
                                                                                                                                                                                                                                                                                                                                                                             29;
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                                                                                                                                                                                                                                                                                                                                                                        300pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FOUND INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gerry NP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 an example from the present invention
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Pred. No. 9.
                                                                                                                                                                                                                                                                                                                                                                                                           ide probes
hybridize
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Kliman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   mutation detection;
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                   ectide probe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         disease;
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RESULT 1459
ABT05157
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   therapeutically or prophylactically to treat an animal having a disease or condition associated with caspase 6, such as Rieger's syndrome or ataxia telangiectasia, hyperproliferative disorder, a hammatopoietic disorder, a bone metabolism or cholesterol disorder, various types of cancer, neurological conditions such as Alzheimer's disease and other deregulated apoptotic pathological conditions. This polynucleotide sequence represents a human caspase 6 oligonucleotide relating to the invention.

NOTE: This phosphorothioate oligonucleotide sequence has 2'-MOE wings and
                                                                                                                                                                      TNFR1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     nucleotides in length that is targeted to a nucleic acid molecule encoding caspase 6, where the oligonucleotide specifically hybridises with and inhibits the expression of caspase 6. The oligonucleotide of the invention specifically hybridises to and inhibits expression of caspase in cells or tissues. The oligonucleotides can be administered
                                  24-OCT-2000; 2000US-00695451
                                                           22-OCT-2001;
                                                                                                                                   de snw
                                                                                                                                                             mouse;
                                                                                                                                                                                                          TNFR1 expression modulation related antisense oligo
                                                                                                                                                                                                                                     11-OCT-2002
                                                                                                                                                                                                                                                                                     ABT05157 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
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                                                                                                             WO200248168-A1
                                                                                                                                                                                     Antisense compound; tumour necrosis factor receptor 1; liver
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           (ISIS-) ISIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to an antisense
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 15; Page 89; 141pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    inhibits
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   antisense oligonucleotide of 8 hibits caspase 6, is useful for
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16; Conserv
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murine; ds.
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           PHARM INC
                                                           2001WO-US051224
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  A
                                                                                                                                                                       liver injury; hyperproliferative disorder; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                            0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 4 C; 5
                                                                                                                                                                                                                                                                                     20
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                                                                                                                                                                                                                                                                                                                                                                                                 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 G; 8 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Watt
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Pred. No. 9.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                to 50 nucleotides treating Rieger's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   oligonucleotide compound of 8
                                                                                                                                                                                                                                                                                                                                                                                                            9.9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                         DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                         Length 20;
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                                                                                                                                                                                                           SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   in length that syndrome.
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                                                                                                                                                                                    disease
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Best Local S
Matches 16
                                                                                                                    The invention relates to an antisense compound 8 to 30 nucleotides in length targeted to nucleic acid molecule encoding tumour necrosis factor receptor 1 (TNFR1), where the antisense compound inhibits expression of TNFR1. The antisense compound is useful for inhibiting the expression of TNFR1 in cells or tissues. The antisense compound is also useful for treating an animal (preferably human) having a disease or condition associated with TNFR1, e.g. a liver disease (such as hepatitis, or liver injury) or a hyperproliferative disorder such as cancer, by inhibiting the expression of TNFR1. The antisense compound is useful for disgnostics, therapeutics, prophylaxis and as research reagents and kits. This polymucleotide sequence represents a mouse oligonucleotide relating to the TNFR1 of the invention
                                                                                                                                                                                                                                                                                                                                                    Novel antisense compound targeted to nucleic acid molecule encoding to necrosis factor receptor 1 (TNFR1), useful for treating humans having disease associated with TNFR1 e.g. hepatitis, liver injury, liver can
                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                         Example
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 Bakér BF,
                              l Similarity
16; Conserv
                                                                                            20
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                                                                                                                                                                                                                                                                                                                         Page
                               Conservative
                                                                                          w
                                                                                                                                                                                                                                                                                                                         61;
                                                                                        A,
                                              0.3%;
                                                                                          4 C;
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                               0
                                                                                                                                                                                                                                                                                                                         English.
                                              Score 14.8;
Pred. No. 9.
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                               Mismatches
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                                               .9e+02
                                                            DB 1;
                                                                                          0 Other,
                                                          Length
                               Indels
                                                                                                                                                                                                                                                                                                                                                          liver cancer
                               0
                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                     tumor
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RESULT 1460
26-SEP-2002.
                      WO200274991-A2
                                             Mycobacterium avium subsp. paratuberculosis
                                                                      Mycobacterium
                                                                                            Mycobacterium paratuberculosis-specific DNA sequence
                                                                                                                    29-AUG-2003
17-JAN-2003
                                                                                                                                                          ABT12981;
                                                                                                                                                                                ABT12981 standard;
                                                                                                                                                                                                                                                                  928
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                                                                                                                                                                                                                                                             CCAAGGAGGTTCCTTTTT
                                                                                                                                                                                                                                             CCAAGTAGGTTCCTTTGT
                                                                                                                    (revised)
(first ent
                                                                      detection
                                                                                                                                                                                DNA;
                                                                                                                     entry)
                                                                      method;
                                                                                                                                                                                20
                                                                                                                                                                                                                                            18
                                                                                                                                                                                                                                                                  945
                                                                      PCR;
                                                                     primer;
                                                                      probe; ss
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20-MAR-2001; 2001GB-00006949 20-MAR-2002; 2002WO-GB001308

(ALLA/) (NORC-)

NORCHIP AS.) ALLARD S J.

The invention comprises a method for detecting the organism (particularly Mycobacterium tuberculosis) method of the invention comprises exposing the test

ting the presence of a micro-culosis) in a test sample. The the test sample to an inducer

Claim 16; Page 15; 70pp; English

Detecting the presence of Mycobacterium tuberculosis in a test sample, comprises inducing mRNA expression of Mycobacterium tuberculosis and detecting the induced mRNA.

WPI; Karlsen

2002-750564/81

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 1457
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cc inheritance. The 185 microsatellite markers of the invention are covered the control of developed from the ancestral diploid donor species Triticum tauschii and come appoint the wheat D genome, which is less polymorphic than the A or B cc genomes. These microsatellite markers thus help to overcome some of the problems associated with the genetic mapping of wheat. The wheat D genome cc map and the microsatellite markers and associated primers of the cc invention are useful for identifying genes responsible for a phenotypic trait of interest, most notably QTLs (quantitative trait loci). In cc particular they may be used for analysing genes and alleles implicated in cdisease and for identifying development factors, quality factors and cf factors conferring resistance to pathogens and xenobiotics. The cc mapping and genotyping diploid and polyploid species and triticum, cc particularly Aegilops, Triticum monococcum, Triticum durum, Triticum and related species; to assess whether or not a product comprises wheat or a related species; and to assess whether or not a product comprises wheat or a related species; and to assess whether or not a product comprises genetically claimed Triticum to assess whether or not a product comprises genetically claimed Triticum to assess whether or not a product comprises genetically claimed Triticum to used in corosatellite marker right pcR primer of the invention. (Updated on 29-cc AUG-2003 to standardise OS field)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              of left (ABQ92918-ABQ93102) and right (ABQ93103-ABQ93287) primers to amplify and detect the microsatellite markers, and to identify genes responsible for a phenotypic trait of interest in wheat. Wheat is an allohexaploid species consisting of 3 diploid genomes designated A, B and D, resulting from two successive intercrossings involving at least three different species. The D genome is thought to have been introduced in the cost of the recent intercrossing, between the amphiploid AABB and Triticum trauschii (DD), probably involving only a limited number of genotypes of both species. Due to its polyploid genome, the large size of its genome, and its low level of polymorphism, the genetic mapping of wheat has to date been difficult. Microsatellites are tandemly repeated sequences between one and six nucleotides long, and are very polymorphic in length, comainly due to polymerase slippage during replication. This high degree of polymorphism makes them especially suitable for the genetic mapping of species which show little intraspecies polymorphism, such as wheat. In addition, microsatellites are codominant, and exhibit Mendelian are inhoritance who are interpolited to the propertion are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local 9
                                                                                                                                                                                                                                                       Antisense; protein phosphatase 1B; PTP1B; ss; probe; human; type 2 diabetes; obesity; ovarian cancer; chronic myeloid l hyperprollierative disease; antidiabetic; anorectic; cytost
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                       13-AUG-2002
18-JAN-2000; 2000US-00487368
                                          14-MAY-2001; 2001US-00854883.
                                                                                                                                           US2002055479-A1
                                                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                                                                                        Human PTP1B antisense oligonucleotide ISIS 146906.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ABK85365 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2378 GAGGAGGGAGCAGAAGGT 2395
                                                                                                                                                                                                                                     glucose;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        16;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                        gene therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0.3%;
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Pred. No. 9
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                                                                                                                                                                                                                                                                                     leukaemia;
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The invention relates to a compound of 8-50 nucleobases in length CC targeted to a nucleic acid encoding protein phosphatase 1B (PTP1B), where CC the compound specifically hybridises with and inhibits the expression of CC PTP1B (e.g. an antisense oligonucleotide). Also included are (1) a CC compound of 8-50 nucleobases in length which specifically hybridises with a CC compound of 8-50 nucleobases in length which specifically hybridises with CC and B nucleobase portion of an active site on a nucleic acid encoding CC PTP1B; (2) inhibiting the expression of PTP1B in cells or tissues CC comprising contacting the cells or tissues with the compound; treating an animal having or suspected of having a disease or condition associated CC with PTP1B in an animal comprising administering the compound; (5) CC preventing or delaying the onset of a disease or condition associated CC with PTP1B in an animal comprising administering the compound; and (6) CC with PTP1B in an animal comprising administering the compound; and (6) CC with PTP1B in an animal comprising administering the compound; and (6) CC prevent or delaying the onset of an increase in blood glucose levels in an animal comprising administering the compound. The compound is used CC in disable to a condition associated with CC prevent or delay the onset of a disease or condition associated with CC prevent or delay the onset of a disease or condition associated with CC animal having or suspected of having the disease or condition, and for CC cancer, chronic myeloid leukaemia and hyperproliferative diseases in an animal compound is also used in diagnostics, therapeutics, prophylaxis, and in research reagants and CC in diagnostics, therapeutics, prophylaxis, and in research reagants and CC targetting human PTP1B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Compound for inhibiting the expression of protein phosphatase 1B (PTP1B) and for treating diabetes, cancer, or obesity, comprises an antisense oligonucleotide targeted to nucleic acid encoding PTP1B.
Sequence
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(WYAT/)
(FREI/)
(MONI/)
(BUTL/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            31-JUL-2000; 2000US-00629644.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Cowsert LM, Wyatt J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FREIER S M.
MONIA B P.
BUTLER M M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COWSERT L M.
  20
BP; 4 A;
6 C; 7 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Freier SM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Monia BP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Butler MM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mckay
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Query Match Best Local Matches al Similarity
16; Conserv Conservative 88.9%; .. Score 14.8; Pred. No. 9 Mismatches 9.9e+02 BB ۲. 2; Length Indels 20 <u>.</u> Gaps 0

밁 ঠ 1264 18 TTCCTGGTGAGGCCAATC 1281

RESULT 1458
AAL40316/c
ID .AAL4031
XX
AC AAL4031
XX
T19-SEPXX
Human c
XX
Muscula
KW Antilip
KW antilip
KW antilip
KW alexia
KW haemato
KW apoptot
XX
OS Homo sa 19-SEP-2002 AAL40316 standard; AAL40316; (first entry) DNA; 20

Human caspase 6 antisense inhibition related oligo SEQ ID ö

Muscular; cytostatic; nootropic; neuroprotective; ophthalmological; antilipaemic; osteopathic; caspase 6; Rieger's syndrome; bone metabolism; ataxia telangictasia; hyperproliferative disorder; cholesterol disorder; apoptotic; haematopoietic disorder;

Homo sapiens

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RESULT 1
88888888888888888
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                          osteoporosis; angina pectoris; restenosis; atherosclerosis; hypotension; anorexia; tumour; migralne; acute heart failure; ulcer; antiinflammatory; stroke; hyportension; neuronal disorder; myocardial infarction psychotic; depression; mental retardation; neurodegenerative disease; antibacterial; Alzheimer's disease; dementia; ischaemia; Parkinson's disease; antiviral; Huntington's disease; anxiety; antifungal; immunosuppressive; cytostatic; vulnerary; analgesic; anorectic; anabolic; diuretic; cardiant; nootropic; antiemetic; vasotropic; diabetes; cancer; tranquillizer; neuroleptic; processive; vasotropic; diabetes; cancer; tranquillizer; neuroleptic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      associated with Lysophospholipase I e.g. inflammation, hyperlipidaemia, and cardiovascular disorders such as atherosclerosis and myocardial ischaemia. (I) is useful as research reagent and diagnostics. (I) is also useful for distinguishing functions of various members of a biological pathway. (I) is useful in antisense gene therapy. ABK37028-ABK37191 represent lysophospholipase I coding sequences, antisense oligonucleotides and related PCR primers of the invention. Note: Antisense oligonucleotides are modified such that bases 1-5 and 16-20 are 2'-methoxyethyl (2'-MOE) nucleotides, all bases have phosphorothioate linkages, and all cytidines are 5-methyl cytidines
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; G-protein coupled receptor; GPCRx11; cerebroprotective; vomiting; receptor-mediated disorder; therapy; urinary retention; allergy; obesity;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAD27505
                                                                                                                New G-protein coupled for treating receptor
                                                                                                                                                              WPI; 2002-130789/17.
                                                                                                                                                                                                                                                                                                20-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                            27-DEC-2001
                                                                                                                                                                                                                                                                                                                                                                                       WO200198330-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                 11-JUL-2000;
26-JAN-2001;
                                                                                                                                                                                                                                                                                                                             20-JUN-2001; 2001WO-BE000104.
                                                                                                                                                                                                                         (EURO-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1455
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                                                                                                                                                                                                                                                                                                                                                                                                                     sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        16;
                                                                                                                                                                                          <
                                                                                                                                                                                                                                                                                                                                                                                                                                                primer;
                                                                                                                                                                                                                         EUROSCREEN SA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CCAGTGTGACTTTTAAAA 1944
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20 BP; 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CCAATGTGACCTTTAAAA
                                                                                                                                                                                           Brezillon
                                                                                                    g receptor
disease.
                                                                                                                                                                                                                                                   ; 2000US-0212913P.
; 2000US-0217494P.
; 2001EP-00870015.
; 2001EP-00870024.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DNA amplifying sense RT-PCR primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; 3 C; 4 G; 8 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          entry)
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                                                                                                                 receptor, mediated (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 14.8;
Pred. No. 9
                                                                                                                disorders e.g. acute heart failure and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                          Z,
                                                                                                                                                                                           Parmentier
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9.9e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 1;
                                                                                                                                                                                          Σ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                           Govarts
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The present invention relates to a G-protein coupled receptor (GPCR) an nucleotide encoding it. GPCR are useful in the manufacture of a medicament for the prevention and/or treatment of receptor-mediated disorders e.g. viral infections, virus and bacterial diseases, diseases

The invention relates to a map of the bread wheat D genome location of a microsatellite marker selected such markers (ABQ92733-ABQ92917). The invention also

also

from a group of 185 encompasses

Claim 4;

5; 105pp; English

Alzheimer's

46pp;

English

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ຈີດດວດດວດດວດດວດດີ
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ABQ93136/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cc and disorders involving disturbances of cell migration, diseases or comparations of immune system including cancers, development of tumours cand tumour metastasis, inflammatory and neoplastic processes; bacterial and fungal infections, in wound and bone healing, dysfunction of cregulatory growth functions; pains, diabetes, obesity, anorexia, bulimia, curinary retention, osteoporosis, angina pectoris, atherosclerosis, curinary retention, osteoporosis, angina pectoris, atherosclerosis, comparation or loss of smooth muscle cells, aneurysm, stroke, ischaemia, ulcers, allergies, comparation of strong prostatic hypertrophy, migraine, vomiting; blood circulating caffections including acute heart failure, hypotension, hypertension and caffections including acute heart failure, hypotension, hypertension and comporation; degenerative diseases, neurodegenerative diseases comparative diseases; and dyskinesias e.g. thurtington's disease or Gilles de la Tourette's syndrome and other collets disease or callet a correct of collets.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                         Microsatellite marker, wheat; D genome; mapping; genotyping; polymorphism; phenotypic trait; QTL; quantitative trait locu disease-associated gene; development factor; quality factor; resistance factor; wheat product; identification; detection;
                                                                                                                   marker, useful
                                                                                                                                                                                               Bernard
                                                                                                                                                                                                                                                                                        22-DEC-2000; 2000EP-00403659
                                                                                                                                                                                                                                                                                                                    26-JUN-2002.
                                                                                                                                                                                                                                                                                                                                                    EP1217079-A1
                                                                                                                                                                                                                                                                                                                                                                                             Aegilops tauschii.
                                                                                                                                                                                                                                                                                                                                                                                                                           genetically modified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       T. tauschii/wheat D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29-AUG-2003
21-OCT-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABQ93136 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 20
                                                                                                   phenotypic trait,
                                                                                                                                                                                                                            (INRG ) INRA INST NAT RECH AGRONOMIQUE
                                                                                                                                                                                                                                                          22-DEC-2000; 2000EP-00403659
                                                                                                                                                                                                                                                                                                                                                                                Triticum aestivum.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ABQ93136;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          related diseases. The present sequence is GPCRx11 DNA amplifying
                                                                                                  of wheat D genome comprising the genome location of a microsatellite ker, useful for e.g. identifying genes responsible for a desired motypic trait, especially quantitative trait loci in wheat, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BP;
                                                                                                                                                                                             Sourdille
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (revised)
(first en
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2 A; 7 C; 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     genome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   entry)
                                                                                                                                                                                                                                                                                                                                                                                                                              wheat;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     microsatellite cfd34 right PCR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             G; 8
                                                                                                                                                                                                                                                                                                                                                                                                                              PCR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        20
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Pred. No. 9.9e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ;;
                                                                                                                                                                                                                                                                                                                                                                                                                             primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0 U; 0 Other
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ocus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       primer
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RESULT 1453
AAS97934/c
ID AAS9793
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Best Local
                                                                                                                                                                                                                                                                                                                                       Human; mouse; SAC1; carbohydrate; sweetener; ethanol; alcoholism; ss; obesity; diabetes; transgenic embryo; body tissue; body fluid; pancreas; blood; tongue; PCR primer; anorectic; antidiabetic; gene therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present sequence for human MEKK2 antisense oligonucleotide 113926 is 1 of various novel human mitogen-activated protein (MAP) kinase kinase kinase 2 (MEKK2, also known as MEK kinase 2 and MAP/ERK kinase kinase 2) antisense oligonucleotides (AAS09045-AAS09122) which specifically hybridise with and inhibit the expression of MEKK2. The antisense oligonucleotides can be used in a composition to modulate the expression of MEKK2 (AAV03598). The antisense oligonucleotides are useful for inhibiting the expression of MEKK2 in the treatment of immunological disorders, inflammatory disorders and hyperproliferative disorders e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Monia BP,
                      Novel isolated polypeptide comprising variant form of mouse polypeptide, and is associated with altered preference for or other sweeteners, useful for preventing obesity, diabete
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAS97934 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        acid
                                                                                                                                                                        28-APR-2000; 2000US-0200794P.
28-JUL-2000; 2000US-0221419P.
10-NOV-2000; 2000US-0247443P.
                                                                                                                                                                                                                                                                                                                            protein
                                                                                                                                                                                                                                                                                                                                                                                           Murine SAC1
                                                                                                                                                                                                                                                                                                                                                                                                                    12-MAR-2002
                                                                                                                                                                                                                                                    08-NOV-2001
                                                                                                                                                                                                                                                                             WO200183749-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       acid molecule encoding MEKF immunological, inflammatory
                                                                                                             Bachmanov
                                                                                                                                                                                                                           25-APR-2001; 2001WO-US013387.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local Similarity
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                                                                         2002-075162/10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  18
                                                                                                                                     WARNER
MONELL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TTAATAATAATAATATCC
                                                                                                AA, I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      compound 8 to 30 nucleobases in length targeted to cule encoding MEKK2, useful for the treatment of an ical, inflammatory of hyperproliferative disorder.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaarde WA,
                                                                                                                                                                                                                                                                                                                                                                                        gene-specific oligonucleotide PCR primer #487.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BP; 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Page 80; 105pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                   (first
                                                                                                                                     CHEM SEN
                                                                                               Beauchamp GK,
i DR, Ross D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A; 1 C; 2
                                                                                                                                     ERT CO.
SENSES CENT.
                                                                                                                                                                                                                                                                                                                                                                                                                   entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ward
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ۳
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   G; 9 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score
Pred.
                                                                                                Chatterjee A,
Tordoff MG;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Freier
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             14.8;
No. 9
                                               variant form of mouse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1;
.9e+02;
                                                                                                            De
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Wyatt JR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2
                                                                                                            Jong
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                            Ľď,
                                                                                                            ᄕ
                                   carbohydrates
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                                               or human
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                                                                                                            S
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The invention relates to an isolated polypeptide, comprising a variant CCC form of mouse or human SAC1 polypeptide. The variant form is associated CCC with altered preference for carbohydrates, other sweeteners or ethanol. CCC The polypeptide and its associated DNA sequence can be produced by recombinant techniques and is useful for preventing obesity, diabetes or calcoholism associated with SAC1 expression. The sequences are useful in cor screening for drugs and sweeteners. Recombinant cell lines and transgenic embryos may be used in screening for and identifying agents that induce cor repress function of SAC1. Predisposition to diabetes, obesity or calcoholism can be ascertained by testing any fluid or tissue of a human ccc (such as blood, pancreas or tongue) for sequence variations of the SAC1 gene. A sequence variation of the SAC1 locus may indicate a consistion to diabetes, obesity and/or alcoholism and may provide a cc predisposition to diabetes, obesity and/or alcoholism and may provide a cc mapple by contacting the DNA with a probe to form a hybridisation complex which is then detected. The sequences represent cDNA encoding human and contracting the DNA with a probe to form a hybridisation complex which is then detected. The sequences represent cDNA encoding human and contracting the DNA with a probe to form a hybridisation complex which is then detected. The sequences represent cDNA encoding human and contracting the DNA with a probe to form a hybridisation complex which is then detected. The sequences represent cDNA encoding human and contracting the DNA with a probe to form a hybridisation complex which is then detected. The sequences represent cDNA encoding human and contracting the DNA with a probe to form a hybridisation complex which is then detected.
        Sequence
                                                                                                                                                                        SAC1 polypeptides and PCR primers specific
        20
BP; 2 A; 8 C; 3 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                          for the SCA1
                                                                                                                                                                        genes
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\$8,<u>6,</u>3838888888888888

Query Match Best Local S Matches 16 4247 20 16; Similarity GTGAGGGTAAGCACCAAG GTGAGGCTTAGCACCAAG Conservative 0.3%; 4264 w 0; Score 14.8; D Pred. No. 9.9e 0; Mismatches 9.9e+02 DB 1; Length Indels <u>,,</u> Gaps

0

S 밁

RESULT 1454
ABK37078/c
ID ABK37078;
XX ABK37078;
AC ABK37078;
XX DE Human lysc
XX Human; mot
KW Human; mot
KW antilipaer
KW antisense
XX Homo sapic
S Synthetic.
XX W020021011
XX W020021011
XX W1020021011
XX W10200210111
XX W1020021011
XX W1020021011
XX W1020021011
XX W1020021011
XX W1020021 Human lysophospholipase I gene, 08-MAY-2002 standard; (first entry) DNA; 20 ВP antisense oligonucleotide

Human; mouse; antiinflammatory; antiarteriosclerotic; vaso antilipaemic; cardiant; lysophospholipase I; inflammation; hyperlipidaemia; cardiovascular disorder; atherosclerosis; antisense gene antiinflammatory; antiarteriosclerotic; vasotropic; primer; 88. ischaemia;

Synthetic Homo sapiens.

WO200210185-A1

20-JUL-2001; 2001WO-US022975.

31-JUL-2000; 2000US-00629645.

ISIS PHARM INC.

Bennett CF, Wyatt

Novel antisense compound useful for treating inflammation, hyperlipidemia, and cardiovascular disorders such as athemyocardial ischemia, inhibits Lysophospholipase I. atherosclerosis

and

3; Page 80; 131pp; English.

The invention where targeted to a nucleic acid molecule encoding lysophospholipase where (I) specifically hybridises with and inhibits the express:

(I) is useful for inhibiting the expression of (II) in cells in cells, and for treating a human having a disease or condition relates to an antisense compound (I) 8-30 nucleobases expression in cells or ij

Claim 14;

Page 93; 239pp; English

for preventing

diabetes, alcoholism

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RESULT 1451
AAC92683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention provides an agent comprising a pyrone compound or dihydroxy compound of specified formulae given in the specification. The agent is used for correcting gene expression regulation errors. Errors in the following genes may be corrected: IL-6, IL-10, hemeoxygenase-1, prostaglandin G/H synthase-2, macrophage inflammatory protein-1-alpha, RANTES, IL-lalpha, IL-1beta, TNF alpha, IL-7 receptor, macrophage inflammatory protein-1-beta, liver and activation-regulated chemokine, macrophage inflammatory protein-2-beta, macrophage inflammatory protein-2-beta, macrophage inflammatory protein-1, macrophage inflammatory protein-1, macrophage inflammatory protein-1, macrophage inflammatory protein-2-alpha, growth regulated protein-1, macrophage inflammatory protein-1, macrophage inflammatory protein-2, alpha, growth regulated protein-1, macrophage inflammatory protein-1, migration inhibitory factor-related protein-1, kba/15-kba protein, interferon-inducible protein, interferon-induced 17-kba/15-kba protein signaling-2, Nef-associated factor-1, myeloid leukemia cell differentiation protein-1, signal peptidase complex, and also side-effects caused by them such as inflammation, Sequences AAH76220
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                  Human Nck-2; adapter protein; Nck adapter protein; hNck-beta; Grb4; signal transduction, SH2 domain, SH3 domain; src homology domain; integrin signalling; receptor tyrosine kinase signalling; growth factor receptor signalling; PINCH; v-Abl, Ras; Sos; transcriptional activation; cancer; tumour; leukaemia; breast cance
Novel antisense compound which inhibits expression of human nck-2 useful
                                     WPI; 2001-090480/10.
                                                                                                                                                       19-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                expression inhibition; phosphorothicate; antisense oligonuclectide; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human Nck-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              27-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2001-514436/56
                                                                                                                                                                                             19-NOV-1999;
                                                                                                                                                                                                                                   26-DEC-2000
                                                                                                                                                                                                                                                                         US6165728-A
                                                                                                                                                                                                                                                                                                               Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAC92683 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Enoki T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               76280 represent PCR primers used in the course of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2365 AGCTGCTCACAGAGAGGA
                                                                           Į,
                                                                                                                                                                                                                                                                                                             sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               16;
                                                                                                                 SISI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20 BP; 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    r correcting gene expression regulation or dihydroxy compound.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AGCTGCTCAGAGACAGGA
                                                                           Cowsert LM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Yamashita S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  phosphorothioate antisense oligonucleotide, SEQ ID NO:44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                 PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                       99US-00444053
                                                                                                                                                                                             99US-00444053
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            69; 93pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A; 7 C; 4 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2382
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 14.8;
Pred. No. 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sagawa H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9.9e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 1;
                                                                                                                                                                                                                                                                                                                                                                    leukaemia; breast cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    error comprises pyrone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Kato I;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
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片 Ş

Sequence 20

BP;

5 A;

3 C; 9 G;

3 T; O U;

0 Other;

S

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CC hNck-beta and Grb4), contains both SH2 and SH3 src homology domains and Cf functions as an adapter protein in integrin-mediated and receptor cyrosine kinase-mediated signal transduction, particularly in growth factor receptor signalling. Moreover, Nck-2 participates in pathways that connect growth factor receptor signalling and integrin signalling via its connect growth factor receptor signalling and integrin signalling via its connect growth factor, a LIM domain-containing adapter protein which is convolved in integrin, growth factor and Wnt signalling pathways. Nck-2 also interacts with EGF (epidermal growth factor) and PDGF (platelet derived growth factor) receptors, inhibiting EGF- and pDGF-stimulated DNA cynthesis in an SH2-dependent manner. Nck-2 is also able to interact with v-Abl, Ras and Sos proteins to induce transcriptional activation, and is therefore implicated in the development of cancer, particularly leukaemia cand breast cancer. The oligonucleotides of the invention are useful for diagnosis, prevention and treatment of conditions associated with Nck-2 expression, such as leukaemia and breast cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequences AAC92649-C92728 represent antisense oligonucleotides targetted to the human Nck-2 gene, which inhibit its expression. The antisense oligonucleotides were designed to target different regions of the human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Nck-2 mRNA; and were analysed for their effect on Nck-2 mRNA levels b
quantitative real-time PCR. Nck-2 (also known as Nck adapter protein,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 1; Col 41-42; 38pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                as research reagents, kits and diagnostics.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             treating disease or condition associated with expression of nck-2,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      English
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RESULT 1452
AAS09120/c
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Best Local S
Matches 16
                                                                                                                                                                                                                                          Human; mitogen-activated protein kinase kinase kinase 2; MAP; MEKK2; MEK kinase 2; MAP/ERK kinase kinase 2; immunological disorder; MEK kinase 1; immunological disorder; moder; hyperproliferative disorder; cancer; antisense;
                                                                                                                                               modified_base
WO200152863-A1
                                                                                                                                                                                                  Homo
                                                                                                                                                                                                                                 phosphorothioate;
                                                                                                                                                                                                                                                                                                                    Human MEKK2
                                                                                                                                                                                                                                                                                                                                                   26-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                    AAS09120
                                                                                                                                                                                                                                                                                                                                                                                                                     AAS09120 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3542 GACGAAGCCCGAGATGTT 3559
                                                                                                                                                                                                 sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Н
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GACGAAGGCCGGGATGTT
                                                                                                                                                                                                                                                                                                                  antisense oligonucleotide 113926.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                         /mod_base= OTHER /mod= "OTHER" phosphorothioate internucleotide Some bases especially bases 1-5 and bases 16-20 methoxyethyl (2'-MOE) bases, bases 6-15 are 2'-deoxynucleotides and all cytidine bases are 5'-
                                                                                                                                                Location/Qualifiers
1. .20
                                methylcytidines"
                                                                                                                                   /*tag=
                                                                                                                                                                                                                                     88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                      ₽P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 14.8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Pred.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9.9e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
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(ISIS-) ISIS PHARM INC 20-JAN-2000; 2000US-00488744 16-JAN-2001; 2001WO-US001361 26-JUL-2001.

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AAD05683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present sequence is one of a number of antisense compounds of up to 30 nucleobases in length that are capable of inhibiting the expression of phosphoenol pyruvate carboxykinase-cycosolic (PEPCK-cytosolic). The antisense compounds are useful for inhibiting the expression of PEPCK-cytosolic in cells or tissues. They are commonly used as research reagents and in diagnostics, e.g. to elucidate the function of particular genes. They are also useful for distinguishing between functions of various members of a biological pathway and for research use. The antisense compounds are also useful prophylactically, e.g. to prevent or delay infection, inflammation or tumour formation. The present sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Antisense compound capable of modulating the expression of pyruvate carboxykinase-cytosolic, useful for preventing or infection, inflammation or tumor formation.
                                                                                                                                                                                                                                                                           Mouse; zmsel protein; Cdc42/Rac interactive binding protein; CRIB; Wiskott-Aldrich Syndrome; cancer; tumour, invasion; metastasis; astthma; digestion; actin polymerisation; cytoskeletal reorganisation; arthritis; testicular function; muscle inflammation; inflammatory bowel disease;
                                                                                                                                                                                                                         diverticulitis; male infertility; male contraceptive agent; myocarditis; spermatogenesis; sperm capacitation; reperfusion ischaemia; psoriasis; melanoma; atherosclerosis; pelvic inflammatory disease; PID; eczema;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAD05683 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 20 BP; 4 A; 5 C; 6 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 1; Col 42; 64pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mckay R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       13-FEB-2001
                                                             09-NOV-2000; 2000WO-US030945
                                                                                                                                                              Mus musculus.
                                                                                                                                                                                                                                                                                                                                                       Mouse zmse1 cDNA clone sequencing primer,
                                                                                                                                                                                                                                                                                                                                                                                           31-JUL-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      21-JAN-2000; 2000US-00488671.
                              10-NOV-1999;
                                                                                                                             WO200134803-A2
                                                                                                                                                                                                            scleroderma; cytostatic; vasotropic; dermatological; gene therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (ISIS-) ISIS PHARM INC.
(ZYMO ) ZYMOGENETICS INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1851 GTGATCGGCACCCAAGAG 1868
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      chimeric phosphorothioate oligonucleotide with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Butler MM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2000US-00488671
                            9908-00438564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Wyatt J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 14.8; DB 1;
Pred. No. 9.9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cowsert LM;
                                                                                                                                                                                                                                                                                                                                                           ZC19,270.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2'-MOE wings and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     phosphoenol
delaying
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
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The present invention relates to DNA and protein for zmsel, a novel human CC Cdc42/Rac interactive binding (CRIB) protein. CRIB proteins are CC implicated in human disease such as wiskott-Aldrich Syndrome. Zmsel CC modulators are useful for modulating tumour cell motility. invasion and CC metastasis, gene transcription, contractility of various tissues, actin CC polymerisation and cytoskeletal reorganisation, digestion, testicular CC function and fertility. Zmsel sequence and its modulators are useful for CC functing cancer, inflammatory heart or cardiovascular conditions, muscle inflammatory bowel diseases or diverticulitis, myocarditis, scleroderma, CC inflammatory bowel diseases or diverticulitis, myocarditis, scleroderma, CC inflammatory diseases, male infertility or as male contraceptive agents and for modulating spermatogenesis and sperm capacitation. zmsel and other CC and for modulating spermatogenesis and sperm capacitation. zmsel and anti CC zmsel antibodies are useful in diagnosing inflammatory diseases, such as reperfusion ischaemia, psoriasis, arthritis, melanoma and other conflammatory diseases, male reproductive cancers such as probes CC inflammatory diseases, male reproductive cancers such as probes CC inflammatory diseases, male reproductive cancers such as probes CC inflammatory diseases, male reproductive cancers such as probes CC is used in gene therapy. The present sequence is ZC19,270 primer used for sequencing mouse zmsel cDNA clone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 4; Page 128; 132pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Novel human CRIB protein, zmsel and polynucleotide encoding the protein, for detecting human chromosomal abnormalities and for treating cancer,
                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Holloway JL,
                                                                        20
                                                                   BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gao Z,
                                                                     v
                                                                        P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             inflammatory conditions.
0.3%;
                                                                        6 C; 7 G; 2 T;
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  Score 14.8;
Pred. No. 9
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                                                                        0 U; 0 Other;
                        DB 1;
                        Length
                        20
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RESULT 1450
AAH76240/c
ID AAH7624
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local S
Matches 16
                                                                                                                                                                        Pyrone; gene therapy; antiinflammatory; gene expression; interleukin; hemeoxygenase-1; prostaglandin G/H synthase-2; RANTES; TNF alpha; p78; macrophage inflammatory protein; chemokine; growth regulated protein-1; matrix metalloproteinase-9; migration inhibitory factor-related protein, lyzozyme; GABA(A) receptor-associated protein; interferon; SCO homolog-ctransketolase; adenosine A2a receptor; CD37 antigen properdin P factor; G-protein; Nef-associated factor-1; signal peptidase; PCR primer; ss.
                        13-JAN-2000; 2000JP-00004989; 03-OCT-2000; 2000JP-00303711.
                                                                                                                                                                                                                                                                                    Human macrophage inflammatory protein-l-beta specific primer.
                                                                                                                                                                                                                                                                                                                                          AAH76240;
                                                                                                                                                                                                                                                                                                                                                                     AAH76240 standard;
                                                                11-JAN-2001;
                                                                                            19-JUL-2001.
                                                                                                                                               Homo sapiens.
                                                                                                                                                                                                                                                                                                                29-OCT-2001
(TAKI ) TAKARA SHUZO CO LTD
                                                                                                                      WO200151480-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  563
                                                                                                                                                                                                                                                                                                                                                                                                                                          w
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                          GCTGCATCCCAGGACAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GCTGCTTTCCAGGACAGG 580
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                 2001WO-JP000082.
                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                     DNA;
                                                                                                                                                                                                                                                                                                                                                                     20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          .9e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                       SCO homolog-2;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                    protein;
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RESULT 1447
AAS10569/c
ID AAS1056
XX
AC AAS1056
XZ
DT 24-OCT-
XX
Human C
XX
Human;
KW Human;
KW viral i
KW viral i
KW atheros
XX
Homo 88
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                                                                                                                                                                                                                                                                                                                      Query Match
Best Local
                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                     The present sequence is that of 1 of 12 claimed antisense oligonucleotides (ASOs, see AAF90492-SO3) of the invention. These ASOs are complementary to regions of the human gene (see AAF90491) for the pro-alpha-1 chain of type I procollagen. They are capable of inhibiting the expression of type I procollagen pro-alpha-1 chain in a cell that expresses it. The ASO, or a pharmaceutical composition including it, is used in a claimed method of treating, or reducing a risk of, a collagen disorder. Such disorders may include those caused by overproduction of collagen fibres, such as liver cirrhosis, kidney, liver and heart fibrosis, scleroderma, hypertrophic sears and keloids. The present ASO, when administered to human WI-26 cells, inhibited type: I collagen
                          Human; caspase 3; apoptosis; hyperproliferative disorder; hepatitis; viral infection; haematopoietic disorder; autoimmune disorder; atherosclerosis; neurological disorder; antisense; phosphorothioate;
    Homo sapiens
                                                                                                                                                                             AAS10569 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                  Sequence 20 BP; 3.A; 7 C; 6
                                                                                                                                                                                                                                                                                                                                                                                              production by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Novel antisense DNA oligonucleotide useful for inhibiting the expression of wild type COLIA1 gene, for treating, reducing the risk of, and preventing collagen disorders.
                                                                                                                    24-OCT-2001
                                                                                                                                                AAS10569;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2001-398145/42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    12-DEC-2000; 2000WO-GB004741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 10; Page 8; 30pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         15-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO200144455-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         dermatological;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COL1A1
                                                                                                                                                                                                                                                                              3370
                                                                                        caspase
                                                                                                                                                                                                                                                   18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      gene;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ASTRAZENECA AB
                                                                                                                                                                                                                                                                                                                        Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ASTRAZENECA UK LTD
                                                                                                                                                                                                                                                                            GGCCCTGCAGGGGAGAAA 3387
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 antisense oligonucleotide
                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      collagen;
                                                                                                                   (first entry)
                                                                                        w
                                                                                                                                                                                                                                                                                                                                                                                              50-70%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         99GB-00029487
                                                                                        antisense oligonucleotide 108893.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      clagen; procollagen; human; antisense; vulnerary;
scar; keloid; scleroderma; cirrhosis; fibrosis; therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         note= "phosphorothioate linkage"
                                                                                                                                                                                                                                                                                                                     0.3%;
                                                                                                                                                                             ВÞ
                                                                                                                                                                                                                                                   \vdash
                                                                                                                                                                                                                                                                                                         <u>,,</u>
                                                                                                                                                                                                                                                                                                         Score 14.8; D
Pred. No. 9.9e
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                  G; 4 T; 0
                                                                                                                                                                                                                                                                                                    9.9e+02;
2;
                                                                                                                                                                                                                                                                                                                                                                  U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1
                                                                                                                                                                                                                                                                                                                                     DB 1;
                                                                                                                                                                                                                                                                                                                                    Length 20;
                                                                                                                                                                                                                                                                                                         0
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X P X Q X Q X Q X D X D X A X I I
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AAF62884/c
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Best Local (
                                                                                                                                                                                                                                                                                                                                    Matches
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modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                           The present sequence for human caspase 3 antisense oligonucleotide 108893 is 10 f various novel antisense oligonucleotides (AAS10517-AAS10676) described in the present invention. Also described are methods of using these compounds for the modulation of caspase 3 expression. The caspase 3 antisense oligonucleotides specifically hybridise with and inhibit the expression of caspase 3. Antisense compounds target to caspase 3 are useful to inhibit caspase 3 expression in cells or tissues and to modulate apoptosis. The caspase 3 antisense oligonucleotides are useful for treating disorders associated with expression of caspase 3. Such disorders include hyperproliferative disorders (e.g. cancer), viral infections (e.g. hepatitis), haematopoietic disorders, autoimmune disorders, atherosclerosis and neurological disorders (e.g. Alzheimer's
                                                                            Human; antiinflammatory; cytostatic; antisense gene therapy; phosphoenol pyruvate carboxykinase-cytosolic; PEPCK-cytosolic;
                                                                                                                       Human PEPCK-cytosolic antisense oligonucleotide ISIS 108052
                                                                                                                                                   08-MAY-2001
                                                                                                                                                                                                          AAF62884 standard;
                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                     disorders,
disease)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 15; Page 84; 127pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New antisense compound to inhibit caspase 3 hepatitis and atherosclerosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Zhang H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11-JAN-2001; 2001WO-US000888
                                      Homo sapiens
                                                                phosphoenol py
inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     18-JAN-2000; 2000US-00484617
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                                                                                                                                                                                                                                                                                                       4423 ATATTAATAATAATAATG 4440
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                                                                                                                                                                                                                                                                                                                                              0.3%;
Similarity 88.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ISIS PHARM INC
                                                                                                                                                                                                                                                                             AAAATAATAATAATG
                                                                                                                                                                                                                                                                                                                                                                                          20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Cowsert LM;
                                                                  n, tumour
                                                                                                                                                                                                                                                                                                                                                                                       BP; 7
                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /note= "OTHER= phosphorothioate internucleotide linkages. Some bases especially bases 1-5 and bases 16-20 are 2'-methoxyethyl (2'-MOE) bases, bases 6-15 are 2'-deoxynucleotides and all cytidine bases are 5'-methylcytidines"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /*tag= a
/mod_base=
                                                                                                                                                                                                                                                                                                                                                                                        A;
                                                                                                                                                                                                           DNA;
                                                                                                                                                                                                                                                                                                                                                                                        1 C;
                                                                   formation;
                                                                                                                                                                                                           20
                                                                                                                                                                                                                                                                                                                                                                                        0 G; 12 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                              Score 14.8; DB 1;
Pred. No. 9.9e+02;
                                                                  phosphorothicate;
                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           is useful
                                                                                                                                                                                                                                                                                                                                                           Length 20;
                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         for treating
                                                                                                                                                                                                                                                                                                                                   0
                                                                                infection;
                                                                                                                                                                                                                                                                                                                                   Gaps
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US6187545-B1

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RESULT 1445
AAH25621
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                                                                                                                                                                                                                                                                                                                                                              CC antisense oligonucleotides to nucleotide sequences encoding groß. More CC generally, antisense compounds (I) comprising antisense oligonucleotides of 5-50 bases targeted to a nucleotide sequence encoding groß! (heat CC shock protein (HSP)60) (GL) and groß (HSP)0) (GS) gene from a CC microorganism, where the antisense compound is complementary to GL or GS of a microorganism and specifically hybridises with and inhibits the CC expression of GL or GS, is claimed. (I) have antibacterial, antiviral and CC expression of GL or GS, is claimed. (I) have antibacterial, antiviral and CC expression of GL or GS, and can be used in antisense therapy and CC for inhibition of expression of großs or großl. (I) are useful for inhibiting the growth of a microorganism, or inhibiting the expression of GL or GS gene in a microorganism, or inhibiting CC the expression of GL or GS gene which involves administering to the CC microorganism or to a cell infected with the microorganism, (I). (I) are CS gene which involves administering to the CC microorganisms which involves identifying a cutaryotic organism or to a cell infected with the microorganism having a GL or GS gene and administering (I) such that the growth of microorganism is inhibited. The antisense compounds are utilised for diagnostics, to compound a pathological infections in humans. They are also useful as condition mediated by microorganism is consistent and condition mediated by microo
RXU
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                                                                                                                                                                                            Matches 16;
                                                                                                                                                                                                           Query Match
Best Local
AAH25621;
                                 AAH25621 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                Sequence 20
                                                                                                                                                                                                                                                                                                                  molecular weight markers. AAH56362 to AAH56367 and AAH56833 to represent PCR primers for groE sequences which are used in the exemplification of the present invention. AAH56855 to AAH56870
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Novel antisense compounds targeting nucleic acid encoding groEL or gene of microorganism, which hybridize with and inhibit expression genes, useful to inhibit growth of microorganism having the genes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Staphylococcus aureus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             microbial infection; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Antisense oligonucleotide; groE; groEL; groES; inhibitor; growth; microorganism; Escherichia coli; Streptococcus pneumoniae; diagnosis; Streptococcus pyogenes; Staphylococcus aureus; Pseudomonas aeruginosa; antibacterial; antiviral; antiproliferative; antisense therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2001-355633/37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Wright JA, Young AH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 18-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20-NOV-2000; 2000WO-CA001347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      aureus
                                                                                                                                          1669 TCCTGCAGCAGATGAAGA 1686
                                                                                                                                                                                                                                                                                                 nucleotide sequence given in the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENESENSE TECHNOLOGIES INC.
                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Page 53; 110pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    groE operon antisense oligonucleotide SEQ ID
                                                                                                                                                                                                                                                              BP; 4 A; 5 C; 3 G; 8 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 invention specifically claims AAH56368 to AAH56832 which
                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 99US-0166249P
                                                                                                                                                                                                           0.3%;
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                                                                                                                                                                                          0;
                                                                                                                                                                                                           Score 14.8; DB 1;
Pred. No. 9.9e+02;
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                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                           Length 20;
                                                                                                                                                                                            Indels
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                                                                                                                                                                                                                                                                                                                                                   to AAH56854
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22-AUG-2001 AAF90502; AAF90502

(first entry)

DNA;

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RESULT 1446
AAF90502/c
ID AAF9050
XX
AC AAF9050
XC
AC AAF9050
XX
DT 22-AUG-
XX
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                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                        Antisense oligonucleotides AAH25596-AAH25675 are targeted to various regions of the human zinc finger protein-217 gene, and inhibit expression of this gene. The antisense compounds are useful for diagnostics, therapeutics, prophylaxis, or as research reagents or kits. The antisense oligonucleotides are useful for treating an animal, particularly a human, suspected of having or being prone to a disease or condition associated with the expression of zinc finger protein-217. In particular, the antisense oligonucleotides are useful for preventing, delaying or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New antisense oligonucleotides for modulating the expression of zinc finger protein-217, particularly useful for preventing, delaying or treating infection, inflammation or tumor formation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           05-SEP-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                               Sequence 20 BP; 5 A; 7 C; 6 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                         treating infection, inflammation or tumour formation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 15; Col 41; 41pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2001-373821/39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Cowsert LM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            28-APR-2000;
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modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Antisense oligonucleotide
                                                                                                                                                                                                                                                       1305
                                                                                                                                                                                                                                                                                                16;
                                                                                                                                                                                                             _
                                                                                                                                                                                                                                                       AGCCAACTGACAAGCCTG 1322
                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2000US-00560594.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /note=
6. .15
/*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   note= "2'-deoxynucleotides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ocation/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            *tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              note= "2'-methoxyethyl nucleotides"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     note=
                                                                                                                                                                                                                                                                                                                  0.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        "2'-methoxyethyl nucleotides"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               n
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ø
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 for zinc finger protein-217 coding region.
                                                                                                                                                                                                             18
                                                                                                                                                                                                                                                                                              0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cytidines are 5-methylcytidines"
                                                                                                                                                                                                                                                                                                                  Pred. No.
                                                                                                                                                                                                                                                                                                                                   Score 14.8; DB 1;
                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                    .9e+02;
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                                                                                   RESULT 1442
AAC67142/c
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                           Query Match
Best Local S
Matches 16
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present sequence is one of a number of antisense compounds of 8 to 30 nucleobases in length that have been designed to target a 5'untranslated region, start codon, coding region or 3'untranslated region of the human receptor activator of NP-kappaB (RANK). The antisense compounds specifically hybridise with and inhibit the expression of RANK. The antisense oligonucleotides are useful for inhibiting the expression of human RANK in human cells or tissues. They can be utilised for diagnostics, therapeutics for the treatment of diseases associated with the expression of RANK, prophylaxis e.g. to prevent or delay infection, inflammation or tumour formation, and as research reagent. The antisense compounds are safely and effectively administered to humans
                                                                                                           The present invention provides antisense oligonucleotides with phosphorothicate backbones directed at the human E2F transcription factor 3 (E2F-3) coding sequences. These can be used in the therapy of diseases which can be treated by modulating E2F-3 expression and to prevent infection, inflammation and tumour formation
                                                                                                                                                                                                                                    Novel antisense compounds targeted to E2F transcription factor 3 diagnosis, prophylaxis and treatment of diseases associated with transcription factor 3 such as infection, inflammation or tumor
                                                                                   Sequence
                                                                                                                                                                                              Example 15;
                                                                                                                                                                                                                                                                                           WPI; 2001-101698/11.
                                                                                                                                                                                                                                                                                                                                                                                24-FEB-2000; 2000US-00513729
                                                                                                                                                                                                                                                                                                                                                                                                          24-FEB-2000; 2000US-00513729
                                                                                                                                                                                                                                                                                                                                                                                                                                      26-DEC-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                US6165791-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     phosphorothicate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human E2F transcription factor 3 mRNA antisense sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            03-APR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAC67142;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAC67142 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                   (ISIS-) ISIS PHARM INC.
 3922 CGCCGCGGCCGCCGCTGC 3939
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  E2F transcription factor 3; antisense; E2F-3; prothicate backbone; infection; inflammation;
                                        Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AATGAAGATGATAAATTC
                                                                                   20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AATGAAGAAGATAAATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20 BP; 4
                                                                                                                                                                                              ဥ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0.3%;
ilarity 88.9%;
Conservative
                           Conservative
                                                                                BP; 2 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                              41-42; 41pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; 5 C; 1 G; 10 T; 0 U;
                                        0.3%;
                                                                               7 C; 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ВP
                          0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              701
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 14.8; D
Pred. No. 9.9e
0; Mismatches
                                        Score 14.8; DB 1
Pred. No. 9.9e+02
                                                                                G; 1 T; 0 U; 0 Other;
                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9.9e+02;
                                                      DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1;
                                                    Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length
                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; cancer;
PCR primer;
                                                     20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ
                          <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
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                          Gaps
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SAXAXU

standard;

DNA;

20

ВP

0

06-SEP-2001 AAH56779; AAH56779

(first

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RESULT 1443
AAF73000/c
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AAH56779/C
                                                           밁
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                                                                                                                     Matches
                                                                                                                                   Query Match
Best Local :
                                                                                                                                                                                                      The present invention describes an antisense compound (I) up to 30 nucleobases in length, where (I) inhibits expression of daxx (also known as Fas binding protein, CENP-C binding protein, dap6 for death associated protein 6 and EAP for Ets-1 associated protein). (I) has cytostatic and antiinflammatory activity, and can be used in antisense therapy and as a modulator of daxx. (I) is useful for inhibiting the expression of daxx in cells or tissues in vitro. (I) can be utilised for diagnostics, therapeutics for the treatment of diseases associated with the expression of daxx, prophylaxis e.g. to prevent or delay infection, inflammation or tumour formation and as research reagent. The present sequence represents an inhibitory human daxx antisense phosphorothioate oligonucleotide which is used in the exemplification of the present invention
                                                                                                                                                                            Sequence 20 BP; 3 A; 5 C; 8 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                             Novel antisense compounds capable of modulating expression of daxx useful for diagnosis, prophylaxis and treatment of diseases associated with expression of daxx.
                                                                                                                                                                                                                                                                                                                                                                                                   Claim 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2001-217744/22.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Dean
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              24-JAN-2000; 2000US-00490692
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           24-JAN-2000; 2000US-00490692
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US6180353-B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             infection; inflammation; tumour
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Fas binding protein; CENP-C binding protein; antiinflammatory; death associated protein 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human daxx inhibitory antisense phosphorothioate oligonucleotide SEQ:101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  24-APR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAF73000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAF73000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (ISIS-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        30-JAN-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Antisense oligonucleotide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ٠:
                                                                                        3519
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                                                           19
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                                                                                                                     16;
                                                                                                                                    Similarity '
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ISIS PHARM INC
                                                           CTGCCTCAACAGGACCTG
                                                                               CTGCCTCAGGAGGACCTG 3536
                                                                                                                                                                                                                                                                                                                                                                                                   Col 46; 59pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cercecceccecrec 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Cowsert LM;
                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DNA;
                                                                                                                                   88.9%;
                                                                                                                                                  0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      daxx; inhibition; phosphorothicate;
                                                           N
                                                                                                                   0
                                                                                                                                 Pred.
                                                                                                                                                  Score 14.8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 protein; dap6; EAP; cytostuted protein 6; Ets-1 associated formation; ss.
                                                                                                                     Mismatches
                                                                                                                                    No.
                                                                                                                                    .9e+02
                                                                                                                                                  DB 1;
                                                                                                                                               Length
                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EAP; cytostatic;
                                                                                                                     0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           protein;
                                                                                                                     Gaps
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RESULT 1440
AAC60531/c
ID AAC6053
XX AAC6053
AC AAC6053
AC AAC6053
XX Human f
XX Human f
XX Human f
XX Human f
XX Human se
SS Homo se
OS Synthet
XX PN US61241
XX PF 15-OCT.
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                                                                                                                                                                                                                                                                                                                  밁
                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                          The present sequence is the antisense oligonucleotide 16022. It is a scrambled sequence derived from oligonucleotide 13793 which is complementary to a portion of the start codon region (91-110) of human thymidylate synthase gene. It is capable of modulating the expression of thymidylate synthase by hybridising to the specific target region on the gene. This oligonucleotide inhibits cell proliferation when a therapeutically or prophylactically effective amount is administered. It can be used for diagnosis and treatment of hyperproliferative diseases like cancer and to distinguish thymidylate synthase-associated tumours from tumours having other etiologies in humans
                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 20 BP; 1 A; 5 C; 13 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2000-116373/10
                           26-SEP-2000
                                                    US6124133-A.
                                                                              Synthetic.
                                                                                                                             Human; fra-1; antisense oligonucleotide; phosphorothioate; cytostatic;
antiinflammatory; 2'-methoxyethyl wing; 2'-MOE wing; infection; cancer
                                                                                                                                                                                              31-JAN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Antisense oligonucleotides to thymidylate synthase gene for treating e.g. hyperproliferative diseases such as cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-JUN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WO9963114-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   modified_base
  15-OCT-1999;
                                                                                       Homo sapiens
                                                                                                                                                                                                                        AAC60531;
                                                                                                                                                                                                                                                 AAC60531 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (ISIS-) ISIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     02-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        09-DEC-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                modified_base
                                                                                                                                                                                                                                                                                                                                         3788 GGGCAGGGCGGCGGCGG 3805
                                                                                                                                                                   fra-1 mRNA antisense oligonucleotide ISIS 109022.
                                                                                                                                                                                                                                                                                                                 w
                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Page 40; 66pp; English.
                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PHARM INC
                                                                                                                                                                                             (first
  99US-00418641.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     98US-00089195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              99WO-US012080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /*tag= d
/mod_base= OTHER
/note= "2'-methoxyethoxy nucleotides"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /*tag=
/mod_ba:
15. .20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         'mod_base= m5c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     *tag=
                                                                                                                                                                                             entry)
                                                                                                                                                                                                                                                                                                                                                                               88.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  _base=
                                                                                                                                                                                                                                                                                                                                                                                           0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               a
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                                                                                                                                                                                                                                                 股
                                                                                                                                                                                                                                                                                                                 20
                                                                                                                                                                                                                                                                                                                                                                   <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                Pred.
                                                                                                                                                                                                                                                                                                                                                                                           Score 14.8;
                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                                                                                                                                No.
                                                                                                                                                                                                                                                                                                                                                                               9.9e+02;
                                                                                                                                                                                                                                                                                                                                                                                            DB 1;
                                                                                                                                                                                                                                                                                                                                                                                           Length 20
                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                 0
                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                 0
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Query Match
Best Local
                                                                                                                                            oligonucleotides have a phosphorothicate backbone and the cytidine residues in the 2'-MOE wings are 5-methylcytidines. The fra-1 antisense oligonucleotides are useful for inhibiting the expression of fra-1 in human cells or tissues. They can be used for diagnostics, therapeutics, prophylaxis and as research reagents and in kits. Use of the antisense compounds may also be useful prophylactically, e.g. to prevent or delay
                                                                                                                                                                                                                                                                    The present sequence is one of a large number of antisense oligonucleotides which are targeted to nucleic acids encoding fra-1. The sequences may be oligodeoxyribonucleotides or chimeric oligonucleotides sequences may be oligodeoxyribonucleotides or chimeric oligonucleotides, sequences may be oligodeoxyribonucleotides, on taking a central gap region consisting of ten 2'-deoxynucleotides, which is flanked on both sides by 2'-methoxyethyl (2'-MOE) wings. The which is flanked on both sides by 2'-methoxyethyl (2'-MOE) wings.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Novel
                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                   Claim 3; Col
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2000-601552/57.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Taylor JK,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  15-OCT-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             and
                                                                                                                                                                                                                                                                                                                                                                                                                                     antisense compound 8-30 nucleobases in length targeted to human d which specifically hybridizes with and inhibits the expression fra-1 in cells.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ISIS PHARM INC.
                                                                                     20 BP; 3 A; 7 C; 7 G; 3 T; 0 U;
                                                                                                                               inflammation or tumour formation
      0.3%;
ilarity 88.9%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Cowsert LM;
                                                                                                                                                                                                                                                                                                                                                                                               41; 38pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  99US-00418641.
Score 14.8; Ub 1,
Pred. No. 9.9e+02;
                                                                                       0 Other;
                                              Length
                                              20;
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RESULT 1441
AAF31764/c
ID AAF3176
                                                           문
                                                                          S
AAF31764;
                AAF31764 standard;
                                                           19
                                                                       AGAAGTCATCCGGACCCT 1192
                 DNA;
                 20
                                                           N
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Matches

Similarity

0

Indels

0;

Gaps

0

Human RANK antisense oligonucleotide, SEQ ID NO: 10-APR-2001 (first entry) 22

Human; cytostatic; receptor activator antiinflammatory; antisense oligonucleotide; of NF-kappaB; RANK; infection; inflammation; 83 cancer;

Homo sapiens

US6171860-B1

09-JAN-2001

05-NOV-1999; 99US-00435296.

99US-00435296.

(ISIS-) ISIS PHARM INC.

BF, Cowsert LM;

WPI; 2001-136876/14.

Novel antisense compounds capable of modulating expression receptor activator of NF-kappaB useful for diagnosis, proph of diseases associated with expression prophylaxis and

Example 15; Col 42; 40pp; English

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RESULT 1438
AAZ60202
                                                                                                                                                                                                                                                                                                                                                                                               밁
                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                    containing a mutant EphA4 gene. Targeted disruption of the EphA4 gene was achieved by homologous recombination in ES cells. The mutant allele should contain a neomycin-resistance gene within the EphA4 gene. The present sequence hybridises to exon III of the ephA4 gene. A 600 bp band is generated from the mutant allele whereas a 645 bp product is generated from the wild type allele. EphA4 deficient mice were used to show that increasing levels of the Eph receptor, or a ligand for the receptor, facilitates regeneration, growth and development of the central nervous system. Eph receptors or their ligands can be used to regulate axon guidance and to facilitate the repair or replacement of nervous tissue in an animal or bird in response brain or spinal cord injury or a disease of the upper motor neuron or central nervous system. Such disease include
                                                                                   RAP3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Bartlett I
Coonan J,
Murphy M;
               EP976824-A1
                                       Rattus sp.
                                                                                                                                             25-APR-2000
                                                                                                                                                                          AAZ60202;
                                                                                                                                                                                                      AAZ60202 standard; cDNA; 20
                                                                                                                                                                                                                                                                                                                                                                                               Sequence 20 BP; 1 A; 8 C; 5 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     wernou or racilitating regeneration, growth and/or development of central nervous system in an animal or bird, for treating disease trauma comprises modifying levels of Eph receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  axon replacement; brain injury; spinal cord injury;
upper motor neuron disease; Alzheimer's disease; Parkinson's disease;
multiple sclerosis; PCR primer; ss.
                                                                                                             PCR primer F1170RAP for RAP3 identification or amplification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (HALL-)
(COUN-)
(UYME)
                                                                                                                                                                                                                                                                                                                                                                                                                           Alzheimer's disease, Parkinson's disease and multiple sclerosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present sequence is a PCR primer used to identify mouse embryos
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 1; Page 17; 48pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2000-350585/30
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                                                                       liver
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      27-OCT-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   27-OCT-1999;
                                                                                                                                                                                                                                                                                                          4162
                                                                      rat; liver regeneration; hepatic
transplant; bioartificial liver;
                                                                                                                                                                                                                                                                                                                                      16;
                                                                                                                                                                                                                                                                               N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  J, Greferath [
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HALL INST MEDICAL RES WALTER & ELIZA COUNCIL QUEENSLAND INST MEDICAL RES. UNIV MELBOURNE.
                                                                                                                                                                                                                                                                                                                                                     Similarity
                                                                                                                                                                                                                                                                                                  GCTCCTCCTGCCCAGCTT
                                                                                                                                                                                                                                                                               GCTCCTCGTGCCCAGCGT
                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hartley L, referath U,
                                                                                                                                             (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      98AU-00006748
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                99WO-AU000931.
                                                                                                                                            entry
                                                                                                                                                                                                                                                                                                                                                   0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pilizzotto M, Kilpatrick T,
Boyd AW, Dottori M, Galea M,
                                                                                                                                                                                                                                                                               19
                                                                                                                                                                                                                                                                                                       4179
                                                                                                                                                                                                                                                                                                                                      0
                                                                                                                                                                                                                                                                                                                                                   Score 14.8; DB 1
Pred. No. 9.9e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WALTER & ELIZA.
                                                                                                                                                                                                                                                                                                                                      Mismatches
                                                                   cell proliferation; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                 DB 1;
                                                                                                                                                                                                                                                                                                                                                                 Length 20
                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Kontgen F;
Paxinos G;
                                                                                liver biopsy;
                                                                                                                                                                                                                                                                                                                                      0
                                                                                                                                                                                                                                                                                                                                      Gaps
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RESULT 1439
AAZ29758
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  is useful for the diagnosis of liver regeneration and/or liver cell proliferation. Anti-rap3 antibodies, PCR primers and nucleotide sequences which act as probes are useful for detecting the occurrence of liver cell proliferation in a patient. Single stranded oligonucleotides that are complementary to RAP3 can be used as probes to detect the amount of mRNA transcribed from RAP3 present in a sample such as a liver biopsy, plasma or serum of a tissue or body fluid in comparison to a reference sample. The probes can also be used for screening a liver CDNA or genomic library. The rap3 protein is useful for enhancing the growth or regeneration of liver tissue. The methods of invention can be used to establish the efficacy of therapeutic agents stimulating liver regeneration and for patients who have undergone liver transplantation and for monitoring patients treated with a bioartificial liver
                                                                                                                                                                                   Antisense; oligonucleotide; thymidylate synthase; cell proliferation; hyperproliferative disease; cancer; primer; phosphorothioate linkage; thymidylate synthase-associated tumour; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  This sequence represents a PCR primer which is based on the rat RAP3 gene. The RAP3 gene and rap3 protein are involved in the regeneration processes of the liver, and the RAP3 gene is expressed specifically if the liver. The RAP3 gene is useful for designing PCR primers (such as present sequence) and probes for detecting nucleotide sequences in a source material and as a marker of liver proliferation. The rap3 prote
 modified_base
                                          modified_base
                                                                                       modified_base
                                                                                                                                       Synthetic
                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                              Human thymidylate synthase antisense oligonucleotide
                                                                                                                                                                                                                                                                              27-MAR-2000
                                                                                                                                                                                                                                                                                                          AAZ29758;
                                                                                                                                                                                                                                                                                                                                     AAZ29758 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Isolated RAP3 gene, protein and antibody useful regeneration and/or cell proliferation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2000-147615/13
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                                                                                                                                                                                                                                                                                                                                                                                                                                                67 TGCCTGCTAGGCCATGCT
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6
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                                                                                                                                                                                                                                                                                                                                        DNA;
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              "2'-methoxyethoxy nucleotides"
                                                            "phosphorothioate linkages"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 14.8; DB 1;
Pred. No. 9.9e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
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                                                                                                                                                    CCR2; C-C chemokine receptor-2; human; promoter; SNP; single nucleotide polymorphism; detection; diagnostic; disease susceptibility; cardiovascular disease; inflam rheumatoid arthritis; PCR primer; ss.
                                                                                                                                                                                                                                                         05-JUN-2000
                                                                                                                                                                                                                                                                                                              AAZ92701 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 20 BP; 3 A; 6 C; 5 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                                           Human CCR-2 promoter SNP (position 43018) constant PCR primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    liver proliferation; PCR primer;
25-JUL-1998;
28-JAN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Isolated RAP3 gene, protein and antibody useful regeneration and/or cell proliferation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2000-147615/13
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                                         20-JUL-1999;
                                                                                                 WO200006769-A2
                                                                                                                           Homo sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                       (first
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98GB-00016193
99GB-00001844
                                         99WO-GB002341
                                                                                                                                                                                                                                                                                                                                                                                                                                                        0.3%;
                                                                                                                                                                                                                                                       entry)
                                                                                                                                                                    cardiovascular disease; inflammatory disease,
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Pred. No. 9.9e+02;
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Mouse EphA4 gene PCR primer P4.

(first entry)

Mouse; EphA4; Ephrin A4 receptor; neuroleptic; neuroprotective; CNS regeneration; axon guidance regulation; axon repair;

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ACTGCAAAGCCTGCACAC 20

Query Match
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Matches 16; Conserv

1010 ACTGCAAAGCATGGACAC 1027

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Score 14.8; D Pred. No. 9.9e 0; Mismatches

9.9e+02; DB 1;

Length Indels

20;

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0.3%; 7 C; 4

Sequence 20 BP;

7 A;

G; 2 T; 0 U; 0 Other;

RESULT 1437 AAA52946

AAA52946 standard; DNA; 20

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CC The method of the invention comprises determining the nucleic acid comprehence at at least 1 of 13 specific positions in the coding region of the CCR-2 gene (EMBL U8924) polymorphisms at positions 238 and 2649 are CCR-2 gene (EMBL U8924) polymorphisms at positions 2385 and 2649 are CCR-2 gene (EMBL U8924) polymorphisms at positions 2385 and 2649 are CCR-2 gene (EMBL U8924) polymorphisms at positions 2385 and 2649 are CCR-2 gene (EMBL U8924) polymorphisms at positions 40915, 41047, 41058, 41507, 41768, 42598, 42673, 4273, 4273, 42874 and 49015. The invention calls relates to allele-specific primers and probes for detecting these CSNPs, diagnostic kits comprising the diagnostic primers and probes, and calls related to relate the paction by administering a CCR-2 ligand antagonist comprising the CCR-2 gene and is therefore useful for comparisons of the predisposition and/or susceptibility of an individual to conditions comprising by the efficacy of the predisposition and/or susceptibility of an individual to conditions comprising polymorphism-containing are useful for treating CCR-2 ligand mediated diseases in humans such as rheumatoid carthritis and other inflammatory diseases and developing new drug treatment of CCR-2 ligand mediator diseases and developing new drug compositions comprising polymorphism-containing nucleic acids are useful in characterising individuals in terms of the compositions are useful in characterising individuals in terms of conditions. Sups of the CCR-2 gene are useful as genetic markers in linkage confict and are useful as useful as genetic markers in linkage confict and action 43018 of the CCR-2 promoter remains such as interms of conditions. Sups of the CCR-2 promoter are made easier by storing the sequence information and computer readable mediane. Sequences 292700 is the constitution as each of the CCR-2 promoter condition. Sequence constitution at the condition of the condition and constitution and constitution and constitution and constitution at the condition and constitution at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to a novel method of diagnosing a single nucleotide polymorphism (SNP) in the human C-C chemokine receptor-2 gene (CCR-2). The method of the invention comprises determining the nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 2; Page 25; 35pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Diagnosing chemokine receptor allele-2 polymorphisms for diagnosing rheumatoid arthritis and cardiovascular disease comprises determining
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            of the allele or its promoter at specified positions.
                                                                          allele-specific primer, while primer
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RESULT 1433
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Matches 16
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Best Local
                                                                                                                                                                                                                                                                      AAX91991-X97517 represent PCR primers used to amplify open reading frames and other nucleic acid sequences from the genome of Chlamydia pneumoniae (see AAX91990). C. pneumoniae causes respiratory disease such as pneumonia and bronchitis and is thought to be a contributing factor in heart disease, sarcoidesis, sinusitis, purulent otitis media, erythema nodosum or pharyngitis. The polypeptides encoded by the open reading frames of the C. pneumoniae genome (see AAX94584- AAX95879) can be used in immunogenic compositions as vaccines. Vectors containing C. pneumoniae nucleotides sequences can also be used as immunogenic compositions, especially where the vector directs the expression of a neutralising
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    frames of the C. pneumoniae genome (see AAY34584- AAY35879) can be used in immunogenic compositions as vaccines. Vectors containing C. pneumonucleotides sequences can also be used as immunogenic compositions, especially where the vector directs the expression of a neutralising epitope of C. pneumoniae
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04-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Respiratory disease; pneumonia; bronchitis; heart disease; sarcoidosis; sinusitis; purulent otitis media; erythema nodosum; pharyngitis; vaccine; neutralising epitope; PCR primer; ss.
                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Page 1570; Disclosure; 1912pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 1999-357842/30
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2251 ACCTCTTCTGGTTTGGGG
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16; Conserv
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                                                                                                                                                                                                                                               C. pneumoniae
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ilarity 88.9%;
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98US-0107078P.
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Pred. No. 9.9e
0; Mismatches
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Pred. No. 9.9e
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RESULT 1435
AAZ45868
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ARAXSS72
IID AAAXX
XX AXX
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAX91991-X97517 represent PCR primers used to amplify open reading frames and other nucleic acid sequences from the genome of Chlamydia pneumoniae (see AAX91990) C. pneumoniae causes respiratory disease such as pneumonia and bronchitis and is thought to be a contributing factor in heart disease, sarcoidosis, sinusitis, purulent otitis media, erythema nodosum or pharyngitis. The polypeptides encoded by the open reading frames of the C. pneumoniae genome (see AAY34584 AAY35879) can be used in immunogenic compositions as vaccines. Vectors containing C. pneumoniae nucleotides sequences can also be used as immunogenic compositions, especially where the vector directs the expression of a neutralising epitope of C. pneumoniae
RAP3; regeneration association protein 3; liver regeneration;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Respiratory disease; pneumonia; bronchitis; heart disease; sarcoidosis; sinusitis; purulent otitis media; erythema nodosum; pharyngitis; vaccine; neutralising epitope; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                    PCR primer R1170RAP used to amplify a portion of the RAP3 gene
                                                                                                              25-APR-2000
                                                                                                                                                                                                                             AAZ45868 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Page 1848; Disclosure; 1912pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Genome sequence of Chlamydia pneumoniae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1999-357842/30.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21-NOV-1997;
04-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20-NOV-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (GEST ) GENSET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Chlamydophila pneumoniae
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ÷,
                                                                                                                                                                                                                                                                                                                                                                                                                           2857 CTCTTCCAAAGCTGAAGC 2874
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     16;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20
                                                                                                                                                                                                                                                                                                                                                                      CTCTTCCAAAGCCGAATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BP; 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                              (first
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98US-0107078P.
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                                                                                                                                                                                                                             DNA;
                                                                                                              entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             88.9%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 14.8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Chemokine receptor; CXCR3b; splice variant; N-terminus; CXCR3a; seven transmembrane; G-protein coupled; CXC; IP10; Mig; T-lymph recruitment; selective; activated; T-cell; neutrophil; inflamma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAV73026-V73071 are probes used to detect a single-base mutation in a human ras oncogene. These probes comprise 12-43 nucleotides of formula 5' -B-Q-D-3', Q = 3 nucleotides complementary to the mutated codon, and B and D each = 0-20 nucleotides complementary to the ras sequences flanking and D each = 0-20 nucleotides complementary to the ras sequences flanking the mutated codon. The probes are useful for detecting cancers associated the codon.
                                            This sequence represents human chemokine receptor CXCR3a-specific reverse transcriptase-PCR (RT-PCR) primer SCM59, used with primer SCM57 (AAZ32719) to amplify human chemokine receptor CXCR3a cDNA for expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human chemokine receptor CXCR3a-specific RT-PCR primer SCM59.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  31-JAN-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAZ32720
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differentially spliced forms,
                                                                                                                                                                                                                                    (ASTR )
                                                                                                                                                                                                                                                                                  30-MAR-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        multiple sclerosis; transplantation; atherosclerosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAZ32720 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; Col 4-5; 18pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1999-059149/05
                               studies.
                                                                                                                                                                        WPI; 1999-633638/54.
                                                                                                                                                                                                     Delaney
                                                                                                                                                                                                                                                                                                                 26-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                07-OCT-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cytokine; delayed type hypersensitivity reaction; RT-PCR; expression;
                cells and
                                                                                                        Example 2; Page 6; 18pp; English.
                                                                                                                                       New polynucleotide encoding a variant chemokine receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                          reverse transcriptase-PCR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2355 TCCCACGACCAGCTGCTC 2372
                                                                                                                                                                                                                                                                                                                                                                                                             sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    point mutations
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      distribution; therapy; rheumatoid arthritis; psoriasis; le sclerosis; transplantation, atheran-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          for detecting ras oncogene point mutations - useful sis of cancer associated with single base mutations.
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ASTRA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Similarity
           9) to amplify human chemokine receptor CXCR3a cDNA for expression The template cDNA was prepared via reverse transcription from T-d human tissues. The human chemokine receptor CXCR3 has two
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Van Der Eb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TCCCAACACCAGCTGCTC 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
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                                                                                                                                                                                                                                                   PHARM LTD
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                                                                                                                                                                                                                                                                                                                 99WO-SE000501.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     88.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20
                                                                                                                                                                                                                                                                                                                                                                                                                                                         primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ΒP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 14.8;
Pred. No. 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    pled; CXC; IP10; Mig; T-lymphocyte;
T-cell; neutrophil; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9.9e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 1; Length 20;
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*656565656565656565656565
                                                                                                             CC both forms was detected in human Th1 and Th2 cells and also faintly in CC spleen. Chemokines are a family of small cytokines which bring about the CC cretuitment of leukocytes during inflammation. The CXC chemokines mostly CC attract neutrophils, while the CC chemokines are less selective. All CC chemokine receptors are seven transmembrane G-protein coupled receptors CC and most are receptors for a number of chemokines. CXCR3a being a CC receptor for the CXC chemokines IP10 and Mig. CXCR3a is expressed in CC activated, but not in resting T-lymphocytes, and may therefore play an CC important role in the selective recruitment of T-cells which occurs in T-CC cell mediated inflammatory conditions. CXCR3b may have an altered pattern of tissue distribution and function in the inflammatory process. Cells captessing the active CXCR3b are useful for identifying ligands, CC expressing the active CXCR3b are useful for identifying ligands, CC especially agonists and antagonists, of a chemokine receptor. In CC addition, the receptor facilitates identification of chemokines CC cxCR3b. The modulation of inflammatory responses is of therapeutic constituing and conditions such as recumeroid arthitis, psoriasis,
                                                        multiple sclerosis, transplants reactions, atherosclerosis and
                                                                                         transplantation, delayed type hypersensitivity
                                                               restenosis
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                                 Query Match
Best Local Similarity
Matches 16; Conserv
                198
w
GTAGAGGGCTGGCAGGAA
                GGAGAGGGCTGGCAAGAA
                                  Conservative
                                          88.9%;
                                                  0.3%;
                215
20
                                 0
                                          Score 14.8;
Pred. No. 9.
                                 Mismatches
                                          9.9e+02
                                                  DB 1;
                                  2
                                                  Length
                                  Indels
                                  <u>.</u>
                                  Gaps
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Sequence 20 BP; 5 A; 3 C; 9 G; 3 T; 0 U; 0 Other;

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RESULT 1432
AAX92569/c
ID AAX9256
                                                       AAX92569;
                                                                                 AAX92569 standard; DNA;
                            13-SEP-1999
 PCR primer used
                           (first entry)
  ö
amplify an ORF of Chlamydia pneumoniae.
                                                                                  20
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Respiratory disease; pneumonia; bronchitis; heart disease; sarcoidosis; sinusitis; purulent otitis media; erythema nodosum; pharyngitis; vaccin neutralising epitope; PCR primer; erythema nodosum; pharyngitis; vaccine;

Chlamydophila Synthetic pneumoniae.

WO9927105-A2

03-JUN-1999

20-NOV-1998; 98WO-IB001890.

04-NOV-1998; 21-NOV-1997; 98US-0107078P 97FR-00014673.

(GEST) GENSET

WPI; 1999-357842/30.

Genome sequence of Chlamydia pneumoniae

Page 1522; Disclosure; 1912pp; English.

AAX91991-X97517 represent PCR primers used to amplify open reading frames and other nucleic acid sequences from the genome of Chlamydia pneumoniae (see AAX91990). C. pneumoniae causes respiratory disease such as pneumonia and bronchitis and is thought to be a contributing factor in heart disease, sarcoidosis, sinusitis, purulent otitis media, erythema The polypeptides

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RESULT 1428
AAX15604/c
ID AAX1560
XX
AC AAX156C
XX
DT 07-MAY
XX
DE Fragme:
XX
Vascul
KW Vascul
KW Valecul
KW diabet
XX
DPI 16-FE
XX
PN JP110
XX
PN JF110
XX
PR 25-JU
XX
AN a
PT An a
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SAXE
                                                                    RESULT 1429
AAZ31353/c
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                                                                                                                                                                                                              Query Match
Best Local S
Matches 16
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Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                  The present sequence represents the a fragment of the upstream sequence of the coding region for vascular endothelial cell growth factor (VEGF). Antisense oligonucleotides targeted to this region inhibit at least 50% of VEGF expression by the cell. The antisense oligonucleotides can inhibit the growth of solid tumor and are useful as anticancer agents are for treating rheumatic arthritis and diabetic retinitis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      least 50 % of VEGF expression by the cell. The antisense oligonucleotides can inhibit the growth of solid tumor and are useful as anticancer agents and for treating rheumatic arthritis and diabetic retinitis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               An antisense nucleic acid compound against vascular endothelial cell growth factor (VEGF) - useful as an anticancer agent, and for treatme of rheumatic arthritis and diabetic retinitis.
                AAZ31353;
                                                AAZ31353
                                                                                                                                                                                                                                                                                   Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Vascular endothelial cell growth factor; VEGF; antisense oligonucleotide solid tumor growth; anticancer agent; rheumatic arthritis;
                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 2; Page 12; 16pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 1999-197823/17.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Unidentified.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         tumor growth;
ic retinitis;
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                                                                                                                                                                                                                16;
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                                                   standard;
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                                                                                                                                          CCCGTCTCTCTCTTCCTC
                                                                                                                                                                                                                                                                                   B₽;
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                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             97JP-00213838
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                                                                                                                                                                                                                                                                                   7 A; 2 C; 10 G; 1 T; 0 U;
                                                   DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cDNA to mRNA;
                                                                                                                                                                                                                           0.3%;
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                                                                                                                                                                                                                               Score 14.8; DB 1;
Pred. No. 9.9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 14.8; DB 1;
Pred. No. 9.9e+02;
0; Mismatches 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            of,
                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          coding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20 BP
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                                                                                                                                                                                                                                                DB 1; Length 20;
                                                                                                                                                                                                                                                                                   0 Other;
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                                                                                                                                                                                                                Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  for treatment
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                                                                                                                                                                                                                                                                                                                                      agents and
                                                                                                                                                                                                              Gaps
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RESULT 1430
AAV73035
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Best Local S
Matches 16
                         23-JUL-1985;
04-AUG-1987;
21-APR-1992;
23-JUN-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention provides HIV cofactor inhibitors that contain oligonuclectides with a base sequence complementary to the CXCR4 or CCR; genes. Such inhibitors can be formulated into drug compositions for prevention or treatment of HIV infection, with inhibition of expression of CXCR4 or/and CCR5 gene. Sequences AAZ31307-362 represent antisense
                                                                                                                                                                                                                                                                             09-FEB-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Antisense oligonucleotide-based HIV cofactor compositions for treatment of HIV infection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    grug
                                                                                                  03-JAN-1997;
                                                                                                                                                          US5847095-A.
                                                                                                                                                                                       Synthetic.
                                                                                                                                                                                                                  Ras oncogene;
                                                                                                                                                                                                                                              Human ras oncogene probe #10
                                                                                                                                                                                                                                                                                                         AAV73035;
                                                                                                                                                                                                                                                                                                                                    AAV73035
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          oligonucleotides to the CXCR4 gene
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(UYLE-) RIJKSUNIV LEIDEN
                                                                                                                               08-DEC-1998
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                                                                                                                                                                                                                                                                                                                                                                                                                               2361 GACCAGCTGCTCACAGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    composition; antisense; ss.
                                                                                                                                                                                                                                                                                                                                                                                                             19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     16;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                                                  standard;
                                                                                                                                                                                                                                                                                                                                                                                                             GACCCTCTGCTCACAGAG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                inhibiting antisense oligo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BP; 3 A; 6 C; 7 G; 4 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   inhibitor; HIV infection; CXCR4 gene;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                             (first
                        85US-00758104.
87US-00081490.
92US-00873352.
94US-00264425.
                                                                                                                                                                                                                    probe;
                                                                                                  97US-00778543
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                                                                                                                                                                                                                                                                                                                                     DNA;
                                                                                                                                                                                                                                                                             entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0.3%;
                                                                                                                                                                                                                    point mutation; detection;
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                                                                                                                                                                                                                                                                                                                                     ВÞ
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Pred. No. 9.9e
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 .9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       inhibitors, as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   gene;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     drug
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
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antiasthmatic; antilipaemic; antiallergic; antilimetricy, machine and antiinflammatory. They can be used in gene therapy and vaccine considered disorders such as cardiomyopathy, atherosclerosis, or a consider related to cell signal processing and metabolic pathway commodulation, in humans. GPCR proteins and the polynucleotides encoding them are useful for determining the presence of or predisposition to a considered especially cancer associated with altered levels of GPCR conteins and polynucleotides, by measuring the level of protein conteins and polynucleotides, by measuring the level of protein conteins and polynucleotides, by measuring the level of protein conteins are also useful for identifying an agent, especially cellular receptor or a downstream effector that binds to GPCR, for screening of a candidate substance interacting with an olfactory receptor polypeptide, its fracments or variants. The present sequence represents a PCR primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            07-AUG-2000;
07-AUG-2000;
11-AUG-2000;
11-AUG-2000;
05-JAN-2001;
05-JAN-2001;
09-JAN-2001;
10-JAN-2001;
22-JAN-2001;
23-JAN-2001;
23-GAN-2001;
01-FEB-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Spytek KA,
Casman SJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          immunomodulator; neuroprotective; nootropic; antiparkinsonian; metabolic immunosuppressive; ophthalmological; antibacterial; virucide; fungicide; protozoacide; hypertensive; hypotensive; analgesic; osteopathic; antiulcer; antiaethmatic; antiallergic; anti-HIV; antilipaemic; vaccine; antiinfertility; antiinflammatory; haemostatic; cell signal processing; cardiomyopathy; atherosclerosis; metabolic pathway modulation; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       a
                                                                                                                                                                                                                                                                                                                                                                                activities such as: antidiabetic; anorectic; immunomodulator; cytostatic; neuroprotective; noctropic; antiparkinsonian; analgesic; osteopathic; immunosuppressive; metrobic; ophthalmological; antibacterial; virucide; fungicide; protozoacide; hypertensive; hypotensive; anti-HIV; antiulcer; antiagthmatic; antilpaemic; antiagthmatic; antilpaemic; antiagthmatic; anti-prov can be used in come theorem; had vaccionetatic; and anti-prov the come theorem; and vaccionetatic; anti-province theorem; and the province the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New G-protein coupled receptor polypeptides and nucleic acids, useful for diagnosis, prevention or treatment of hematopoietic, neurodegenerative, immune and signal transduction pathway disorders.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Larochelle WJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention describes novel human G protein-coupled receptors (GPCR) designated GPCR1-36 from the present invention. The GPCRs can have
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (CURA-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    protein-coupled receptor GPCR16 PCR primer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2002-217180/27.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Padigaru M,
Vernet CAM,
Mezes PS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; 2000US-0224613P.
2000US-0224815P.
2001US-0260003P.
2001US-0260072P.
2001US-0260450P.
2001US-0261156P.
2001US-0263338P.
2001US-0263338P.
2001US-0263434P.
2001US-0263436P.
2001US-0276346P.
2001US-0274873P.
2001US-0274873P.
2001US-0274873P.
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2000US-0223472P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Taupier
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Zerhusen BD, Baumgartner
Ballinger RA, Shenoy SG,
Grosse WM, Alsobrook JP,
RJ, Colman SD, Szekeres E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 receptor;
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Kekuda
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gorman
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an; metabolic;
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RESULT 1652
ABK41527/c
ID ABK4152
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AAL42709
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Best Local Similarity
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                                                                                                                                                                                      Matches
                                                                                                                                                                                              Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         used in the isolation of a novel human GPCR in the
                                                                                                                                                                                                                           Sequence 22 BP; 6 A; 5 C; 6 G; 4 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                phenol and trichloroethylene decomposing microbe. The oligonucly probes of the invention are useful for detecting a phenol and trichloroethylene decomposing microbe in a sample. The present represents an oligonucleotide probe of the invention
                                                                                                                                                                                                                                                                                                                                            Oligonucleotide for detecting a phenol
                                                                                                                                                                                                                                                                                                                                                                                                                              08-SEP-2000; 2000JP-00273949
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       JP2002085070-A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAL42709;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAL42709
                                                 21-MAY-2002
                                                                                                                                                                                                                                                                               The invention comprises 11 oligonucleotide probes designed to detect aphenol and trichloroethylene decomposing microbe. The oligonucleotide
                                                                                                                                                                                                                                                                                                             Claim 1; Page 2; 10pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                 WPI; 2002-388912/42
                                                                                                                                                                                                                                                                                                                                                                                                           08-SEP-2000; 2000JP-00273949
                                                                                                                                                                                                                                                                                                                                                                                                                                                    26-MAR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Probe; ss; detection; phenol and trichloroethylene decomposing microbe.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Phenol and trichloroethylene
                                                                      ABK41527;
                                                                                           ABK41527 standard; DNA; 22
                                                                                                                                                                                                                                                                                                                                                                                      (CANO ) CANON
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Pred. No. 1.
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Human; mouse; alpha-catenin; primer; ss; cytostatic; cadherin-catenin related pathway; heart testis; cance

atic; antiinfertility;
cancer; gene therapy;

Human

CTNNA3

exon-specific lower PCR primer

Disclosure;

27; 82pp;

English

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Best Local
The present invention describes a method for removing a primer sequence (PS) from a primer extended product (I) or blocking restriction endonuclease recognition domain (RERD) in (I) involving digesting (I) with: (a) a RE recognising double stranded (ds) RERD comprised by PS in (I), or (b) an enzyme that recognises ds enzyme recognition site in (I) thus blocking cutting mediated by RERD in (I), respectively. The method can be used for removing a primer sequence from a primer extended product or blocking restriction endonuclease recognition domain in a primer extended product. The method is useful in DNA sequencing methods including medical diagnostics, genetic mapping, genetic identification, forensic analysis and molecular biology research. The present sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present invention relates to rat Glial cell-line Derived Neurotrophic Factor (GDNF) family receptor alpha-4 (GFRalpha-4; see AAB61636 and AAB61637). GFRalpha-4 is useful in the preparation of a medicament for the treatment of neurodegenerative disease, Alzheimer's disease, Parkinson's disease, motor neuron disease, peripheral neuropathy, spinal cord injury, familial hirschsprung disease, carcinomas, and diseases cord injury, familial hirschsprung disease, carcinomas, and diseases associated with GFRalpha-4 receptor dysfunction and in alleviating pain. The present sequence is a PCR primer for rat GFRalpha-4. This sequence was used in the identification of coding sequences for the GFRalpha-4 proteins of the present invention (see AAF31061-AAF31063)
                                                                                                                                                                                                                                                   Removing primer sequence from, or blocking restriction endonuclease recognition domain in primer extended product, comprises digesting
                                                                                                                                                                                                                                                                                                   WPI; 2001-217897/22
                                                                                                                                                                                                                                                                                                                                                                                                01-NOV-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                07-JAN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         genetic identification;
                                                                                                                                                                                                 Example 4; Col 58; 49pp; English.
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16; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        quencing; gel resolution; medical diagnostic; genetic mapping; identification; forensic analysis; molecular biology research; extended product; restriction endonuclease recognition domain;
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Pred. No. 1.1e
0; Mismatches
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RESULT 1650
ABL92875
ID ABL9287
XX
AC ABL9287
XX
AC ABL9287
XX
DT 06-JUN-

ABL92875;

ABL92875

standard;

DNA;

22

ВP

06-JUN-2002

(first entry)

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RESULT 1649
AAH78984/c
ID AAH7898
XX AAH7898
XX AAH7898
XX Human h
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XX Homo sa
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                                                                                                                                                                                                          exogenous gene in a human cell. The promoter is fro shock protein gene hsp90beta. The present sequence example illustrating the invention
                                                                                                                                                                     Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   represents a cystic fibrosis transmembrane conductance regulator gene primer which is used in an example from the present invention for the demonstration of interval sequencing mediated by class-IIS restriction endonuclease generated 5' overhangs and template-directed ligation
                                                                                                                                                                                                                                                                            The invention relates to a human promoter used
                                                                                                                                                                                                                                                                                                                      Example 1; Page
                                                                                                                                                                                                                                                                                                                                                                efficiently.
                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2001-515306/57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         10-DEC-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; hsp90beta; heat shock protein 90beta; promoter; gene expression; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human hsp90beta
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                                       1696 CAGAGCAGCCGGAGCCCG 1713
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                                                                                                                                                                  A; 10 C; 7 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                    (disclosure);
                                                                                                                                                                                                                                                                                                                                                                                    promoter for human body cell to
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Pred. No. 1
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                                                                                 Mismatches
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                                                                                                       1.1e+03
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                                                                                                                           DB 1;
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RESULT 1646
AAA07390
ID AAA0739
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AC AAA0739
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DT 07-JUL-
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AAZ56470
ID AAZ5647
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                        The present invention describes a method for preparing a cell population enriched for long-term repopulating human haematopoletic stem cells. The method comprises obtaining a population of cells from human haematopoletic tissue and isolating a population of KDR+ cells. KDR is a human vascular endothelial growth factor receptor (VEGFRII). The novel
             07-JUL-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Vascular endothelial growth factor receptor; KDR; VEGFRII; VEGFR; haematopoietic stem cell population; PCR primer; ss.
                                                                                                                                                                                                                   Sequence 22 BP; 5 A; 3 C; 3 G; 11 T; 0 U; 0 Other;
                                                                                                                                                                                                                                         cell population can be used to inhibit rejection of a transplanted organ, by administering the KDR+ cells of the donor to a tissue recipient. The present sequence represents a reverse transcription PCR primer for KDR, which is used in an example from the present invention
                                                                                                                                                                                                                                                                                                                                                                                        Preparation of a cell population
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
                                    AAA07390;
                                                           AAA07390
                                                                                                                                                                                                                                                                                                                                                                Example; Page 41; 83pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2000-086715/07.
                                                                                                                                                                                                                                                                                                                                                                                                                                       Ziegler BL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                              (UYJE-) UNIV JEFFERSON THOMAS.
(SUPE-) INST SUPERIORE DI SANITA.
(ZIEG/) ZIEGLER B L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     28-MAY-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              02-DEC-1999.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Vascular endothelial growth factor receptor KDR RT-PCR primer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAZ56470
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               29-MAY-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAZ56470 standard;
                                                                                                                                             5136 CCTTATGTTGCTTTTCA 5153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1994 СССТСАССАССАСААСССССА 2013
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                                                                                                                                                                                 Similarity
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                                                           standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCCCGAGTAYAAGAACCGGA 21
                                                                                                                      CCTTTTGTTGCTTTTTGA
                                                                                                                                                                     Conservative
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             (first entry)
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Pred. No. 1.1e
1; Mismatches
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Pred. No. 1
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Glial cell-line derived neurotrophic factor family receptor alpha-4, useful for preparing medicaments for treating neurodegenerative dise (e.g. Alzheimer's disease, Parkinson's disease) and carcinomas.

diseases

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RESULT 1647
AAF31067
ID AAF3106
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Best Local
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                                                                                                                                                                                                                           Rat; GFRalpha-4; carcinoma; PCR primer; familial hirschsprung disease; glial cell-line derived neurotrophic factor; neurodegenerative disease; GDNF family receptor alpha-4; Alzheimer's disease; Parkinson's disease; peripheral neuropathy; spinal cord injury; motor neuron disease; pain;
                                                                                                                                                                                                                                                                               Rat GFRalpha-4 PCR primer RAT-GFRalpha4-sp1.
                                                                                                                                                                                                                                                                                                    06-APR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 22 BP; 3 A; 4 C; 12 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               This sequence represents a PCR primer for DNA encoding the akashiwo Na+ATPase of the invention. The Na+-ATPase gene i
                                                                     Masure
                                                                                                                                  26-MAY-2000; 2000WO-EP004918.
                                                                                                                                                                          WO200102557-A1
                                                                                                                                                                                               Rattus rattus.
                                                                                                                                                                                                                                                                                                                         AAF31067;
                                                                                                                                                                                                                                                                                                                                             AAF31067 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     the preparation of a salt-resistant plant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 2; Page 8; 21pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New Na+-ATPase gene, useful for preparation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2000-353222/31.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               07-AUG-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    07-AUG-1998;
                                                                                                             29-JUN-1999;
                                                                                                                                                       11-JAN-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Na+-ATPase; enzyme; salt-resistant plant; PCR primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PCR primer for Heterosigma akashiwo Na+-ATPase gene.
                                                                                         (JANC ) JANSSEN PHARM NV.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (NORQ ) NORINSUISANSHO KOKUSAI
                                                                                                                                                                                                                                                                                                                                                                                                                551 CAAGGCGGAGGAGCTGCT 568
                                                                                                                                                                                                                                                                                                                                                                                                                                        16;
                                                                    SLJ,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
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                                                                    Cik M,
                                                                                                                                                                                                                                                                                                    (first
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                                                                                                                                                                                                                                                                                                                                             DNA;
                                                                                                                                                                                                                                                                                                    entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                  0.3%;
                                                                     Hoefnagel
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Pred. No. 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  of salt-resistant plants.
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length
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is useful for
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RESULT 1643
AAZ95601/c
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      method of inhibiting the expression of Ship-2 in human cells or tissues in vitro comprising contacting the cells with the phosphorothioate antisense oligonucleotides. The phosphorothioate antisense oligonucleotides can be used to treat animals (especially humans) suspected of having or being prone to a disease or condition associated with Ship-2 expression. The present sequence represents a PCR primer for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention describes phosphorothicate antisense oligonucleotides that specifically hybridise with, and inhibit the expression of, nucleic acids encoding human Ship-2 (also called SH2-containing phosphatidylinositol phosphatase-2). Also described is a method of inhibiting the expression of Ship-2 in human cells or tise
                                             Diagnosing hereditary hemorrhagic telangiectasia by identifying mutations that lead to susceptibility to the disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Antisense oligonucleotides, useful for inhibiting human Ship-2 expression and for detecting nucleic acids encoding Ship-2.
                      Disclosure;
                                                                                                           Marchuk DA,
                                                                                                                                                                                                          08-FEB-2000
                                                                                                                                                                                                                                  US6022687-A.
                                                                                                                                                                                                                                                                                Osler-Weber-Rendu
                                                                                                                                                                                                                                                                                            Human;
                                                                                                                                                                                                                                                                                                                   Human endoglin PCR primer SEQ ID NO:33.
                                                                                                                                                                                                                                                                                                                                              07-JUN-2000
                                                                                                                                                                                                                                                                                                                                                                                          AAZ95601 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             25-JUN-1999;
                                                                                                                                                           29-NOV-1994;
                                                                                                                                                                                  29-NOV-1995;
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                                                                                                                                   (UYDU-) UNIV
                                                                                                                                                                                                                                                        sapiens
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16; Conser
                                                                                                                                                                                                                                                                                            endoglin;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTGCGTGCTGTATCGGAA
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                        Col 7-8;
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                                                                                                           Mcallister
                                                                                                                                   DUKE.
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                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             which is used in an example from the present invention
                                                                                                                                                           94US-00346129
                                                                                                                                                                                  95US-00564496
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                                                                                                                                                                                                                                                                               hereditary haemorrhagic telangiectasia; HHT; u disease; diagnosis; identification; PCR primer;
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                      40pp;
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                     English
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                                                                                                           Letarte M;
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Pred. No. 1.1e
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                                                          genetic
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The present invention describes a method

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AAZ34877
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local
                                                                      This oligonucleotide represents 5' primer B7-2 used in the PCR amplification of a 344 nucleotide fragment encoding a central region of the constant domain of feline CD80 (B7-1). The primer based on human and feline CD80 sequences. Peripheral blood mononuclear cell cDNA was used as template. A full-length cDNA (see AAZ34836) for feline CD80 was subsequently obtained. The invention relates to a recombinant virus that contains at least one foreign nucleic acid, inserted into a nonessential genomic region, that encodes feline CD28, CD80, CD86 or CTLA-4 protein, or their immunogenic fragments, and is expressed when the recombinant virus is introduced into a suitable host. The recombinant virus may feat the second of the suitable host. The recombinant virus may feat the second of the suitable host. The recombinant virus may feat the second of the suitable host. The recombinant virus may feat the second of the suitable host.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                identifying a predisposition to, hereditary haemorrhagic telangiectas (HHT) (also called Osler-Weber-Rendu disease) comprising determining whether a sample of genomic DNA from the subject contains a mutation the gene encoding endoglin (the mutation is indicative of a predisposition to HHT). The method may be used for diagnosing (or identifying individuals with a predisposition to developing) HHT. The present sequence represents a PCR primer for the human endoglin gene, which is used in the exemplification of the present invention
                           further comprise a foreign nucleic acid encoding an immunogen derived from a feline pathogen. It is used to enhance or suppress an immune response in a feline, particularly as a vaccine
                                                                                                                                                                                                                                                   Disclosure;
                                                                                                                                                                                                                                                                                                Novel
                                                                                                                                                                                                                                                                                                                              WPI; 2000-062155/05
                                                                                                                                                                                                                                                                                                                                                          Winslow
                                                                                                                                                                                                                                                                                                                                                                                        (SCHE)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic. Felis catus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            tumour;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CD80; B7-1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Feline CD80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         28-FEB-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAZ34877;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAZ34877 standard; DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                sapiens
                                                                                                                                                                                                                                                                                              recombinant virus useful as immunomodulators, particularly in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               22
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                                                                                                                                                                                                                                                                                                                                                                                        SCHERING-PLOUGH
SCHERING-PLOUGH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            feline; cat;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      B₽;
                                                                                                                                                                                                                                                Page 51;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (B7-1)
                                                                                                                                                                                                                                                                                                                                                           Cochran
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            therapy; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PCR 5'
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                                                                                                                                                                                                                                                                                                                                                                                            VETERINARY CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            recombinant virus; vaccine;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       primer B7-2.
                                                                                                                                                                                                                                                English.
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Pred. No. 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0 Other,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             immunomodulator;
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RESULT 1641
AAX01783/c
ID AAX0178
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AC AAX0178
XX
DT 09-APR-
XX
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ID AAX57135 standard; DNA; 22
                                                                                                                                                        닭
                                                                                                                                                                                                                                                                              CC CKCNQ2 and KCNQ3. Detecting mutations in sequences that encode KCNQ2 or CKCNQ3, or the loss of one copy of these genes, is used for diagnosis and CC prognosis of benign familial neonatal epilepsy (BFNE), juvenile myotonic priepsy (MTE) or rolandic epilepsy (REN). Cells (or transgenic animals) CC that express wild-type or mutant KCNQ2 or 3 (also the proteins themselves CC in cell-free form) are used to screen for agents that can be used to treat or prevent these forms of epilepsy. Fragments of the encoding CC nucleic acids are used as probes or primers, either for detecting CC mutations or for isolation of related sequences, while the complete CC sequences may be used in gene therapy to provide wild-type protein. CC Antibodies specific for mutant or wild-type proteins are used as CC diagnostic reagents and for drug screening. The KCNQ2 and 3 proteins are used in rational design of drugs and therapeutically (in replacement CC therapies). The forms of epilepsy associated with mutations in KCNQ2 and 3 sequences can now be diagnosed early (before symptoms are manifest), CC and better treatment options will be available. AAX57074-X57139 are
                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human mutant KCNQ3 primer 30
                09-APR-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Singh NA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    gene therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               benign familial neonatal epilepsy; BFNE; juvenile myotonic rolandic epilepsy; mutant; treatment; screening; epilepsy;
                                                AAX01783;
                                                                            AAX01783
                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Nucleic acid encoding potassium channels KCNQ2 and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 1999-312938/26.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (UTAH ) UNIV UTAH RES FOUND.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               24-OCT-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              22-JUL-1999
                                                                                                                                                                                     4083 CCTCAGTGAGCTGCCACT 4100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        65; Page 152; 195pp; English.
                                                                                                                                                        21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              KCNQ3; human; murine; potassium channel; diagnosis;
                                                                                                                                                                                                                 1 Similarity
                                                                            standard;
                                                                                                                                                                                                                                                                              22 BP; 4 A;
                                                                                                                                                        CCCGAGTGAGCTGCCACT 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Leppert MF, Charlier
                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    drug screening; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               97US-0063147P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             98WO-US022375
                                                                           DNA; 22
                                                                                                                                                                                                                              0.3%;
                                                                                                                                                                                                                                                                              5 C; 10 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ₽P
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                                                                                                                                                                                                                                Score 14.8;
Pred. No. 1.
                                                                                                                                                                                                                 Mismatches
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                                                                                                                                                                                                                                 1.1e+03
                                                                                                                                                                                                                                                DB 1;
                                                                                                                                                                                                                                              Length 22
                                                                                                                                                                                                                 Indels
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c epilepsy; JME;
; detection;
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genetic identification; forensic analysis; genetic counselling; medical diagnostic; offset collection; multiplex automation; primer;
                                                                                                                                                                                                                                                                                                      Cystic fibrosis transmembrane conductance regulator; sequencing; genetic identification; forensic analysis; genetic counselling;
                                                                                                                                                                                                            01-NOV-1996;
                                                                                                                                                                                                                                           12-JAN-1999
                                                                                                                                                                                                                                                          US5858671-A.
                                                                                                                                                                                                                                                                         Homo
                                                                                                                                                                                                                                                                                                                              Human cystic fibrosis transmembrane conductance regulator
                                                                                                                                                               WPI; 1999-119868/10.
                                                                                                                                                                                                                           01-NOV-1996;
                                                                                                                                                                                             (IOWA ) UNIV
                                                                                                                                                                                                                                                                         sapiens.
                                                                                                                                                                                              IOWA RES FOUND.
                                                                                                                                                                                                            96US-00742755
                                                                                                                                                                                                                            96US-00742755.
                                                                                                                                                                                                                                                                                                                               primer
                                                                                                                                                                                                                                                                                                 88.
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This sequence is an oligonucleotide used to describe a sequencing method which identifies the first and second nucleotides in double (ds) nucleic acid segments. The method can be used to sequence NNA, for example, in genetic identification, forensic analysis, genetic counselling or medical diagnostics. The method sequences in discrete intervals that start at one end of each DNA segment. The method overcomes problems inherent in other sequencing methods, such as the need for gel resolution of DNA fragments and the generation of artifacts caused by ss DNA segments, and sequence the segments in parallel, to provide continuous sequence information over long intervals. This method is also suitable for automation and multiplex automation to sequence large sets of segments

regenerative method which uses a restriction enzyme with a cleavage site separate from it's recognition site.

Example 4; Col 58; 52pp; English.

Sequence 22 BP; 5 A; 6 C; 4 G; 7 T; 0 U; 0 Other;

Query Match Best Local S Matches 16 Similarity 0.3%; ilarity 88.9%; Conservative <u>,,</u> Score 14.8; Pred. No. 1 Mismatches 1.1e+03 DB 1; Length 22; 0 Gaps 0

밁 S RESULT 1642 1039 CAGAAGAGCATCTTAAGG 1056 22 տ

Human; Ship-2; antisense oligonucleotide; phosphorothicate; detection; inhibition; SH2-containing phosphatidylinositol phosphatase-2; PCR primer; ss.

Human Ship-2 PCR primer SEQ ID NO:2.

22-MAY-2000

(first entry)

AAZ91409;

AAZ91409 standard;

DNA; 22 ВP

US6025198-A.

15-FEB-2000

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BXSXSXB
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AAZ28257/c
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AAX61205
                                                                                                                                                                                           Matches
                                                                                                                                                                                                      Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                This sequence represents a human chromosome alpha-satellite region. The invention relates to the use of a triple-helix forming oligonucleotide for in situ detection of a double-stranded target nucleic acid sequence. The method can be used to detect a genetic disorder e.g. to detect an extra or missing chromosome or fragment or aneuploidy, especially for detecting an extra or missing chromosome 17 or 21. The method can be also be used to screen for individuals at risk of developing a disease or for diagnosing an infectious disease. The use of triple helix forming oligonucleotides allows in situ detection of double stranded target sequence as opposed to prior art uses of developing potential anti-gene therapeutic agents or artificial restriction endonucleases
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Novel use detection
Human CFTR PCR primer A (#40).
                          05-JAN-2000
                                                  AAZ28257;
                                                                           AAZ28257
                                                                                                                                                                                                                                            Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Probe; human; chromosome 17 triple-helix forming oligonucleotide; genetic disorder; missing chromosome; aneuploidy; chromosome 21; infectious disease; diagnosis; alpha-satellite region; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAX61205 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 19; Page 13; 45pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 1999-327425/27.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20-MAY-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAX61205;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Johnson MD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (UYPR-) UNIV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10-NOV-1997;
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                                                                                                                                                                                           16;
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                                                                                                                                         GAAAGACGAGAGAGAAGC
                                                                                                                                                                   GCAAGACGAGGGAGAAGC
                                                                          standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CCCAGCATCGTGCTCACC 3698
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CGCAGCATGGTGCTCACC
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                                                                                                                                                                                                                                            BP; 12
                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                 triple helix forming oligonucleotides, useful for in situ double stranded target sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Fresco JR;
                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRINCETON.
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                                                                                                                                                                                                                                            A,
                                                                                                                                                                                                      0.3%;
                                                                                                                                                                                                                                            3 C;
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                                                                           BP
                                                                                                                                                                                                                                            7 G; 0 T;
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                                                                                                                                                                                         Score 14.8; D
Pred. No. 1.1e
0; Mismatches
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U;
                                                                                                                                                                                                       1.1e+03
                                                                                                                                                                                                                  DB 1;
                                                                                                                                                                                                                                            0 Other;
                                                                                                                                                                                                                Length 22;
                                                                                                                                                                                          Indels
                                                                                                                                                                                          0
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Matches
                                                                                                                                   Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 identification tag, a restriction enzyme recognition sequence, a sequence identification region, and a detectable label, is then hybridised to the target nucleic acid to form a ligated molecule. This ligated molecule is identified using the detectable label, and is then amplified with a primer specific for the cycle identification tag of the adaptor. This process is then repeated on the amplified molecule to gain sequence information. The method can be used in e.g., genetic identification, forensic analysis, genetic counselling, or medical diagnostics. If can be used for sequencing of previously uncharacterised viral, bacterial or protozoan human pathogens, as well as sequencing of genomes of plant and animal species of agricultural, environmental and scientific interest.
                                                                                                                                                                                                                                                                                                The method does not require high resolution separations and generate signals more amenable to analysis. The method can also be easily automated and can be carried out on DNA that is almost entirely double stranded, thus preventing the formation of secondary structures that complicate the known sequencing methods that rely on hybridisation to single stranded templates (e.g., sequencing by hybridisation), and overcoming obstacles posed by microsatellite repeats, other direct
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   which uses restriction enzyme adaptors and amplification reactions (e.s. PCR). This method initially involves digesting the double stranded DNA segment to be sequenced with a restriction enzyme to produce a double stranded molecule having a single stranded overhang sequence corresponding to an enzyme cut site. An adaptor having a cycle
                                                                                                                                                                                                                                                                      overcoming ob
repeats, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Synthetic. Homo sapie
                                                                                                                                                                                                                   Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This sequence represents a human CFTR PCR primer A (#40), used wit primer B (#41, AAZ28258) to amplify a template DNA (consisting of portion of the human cystic fibrosis transmembrane conductance reportion of the human cystic fibrosis transmembrane conductance recovery gene) in a novel iterative and regenerative DNA sequencing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequencing of double regenerative process
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Key
modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     restriction enzyme; cystic fibrosis tran
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 4; Page 91; 144pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           05-MAR-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (IOWA ) UNIV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        10-SEP-1999.
                                          1039 CAGAAGAGCATCTTAAGG
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22
                                                                                                         16;
                                                                                                                                      Similarity
CAGAAGATCATCTTACGG
                                                                                                                                                                                                                   B₽;
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enzyme; ligation; amplification; CFTR;
osis transmembrane conductance regulator; ss
                                                                                                         Conservative
                                                                                                                                                                                                                                                                         inverted repeats,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     IOWA RES FOUND
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/note= "Methylated base"
                                                                                                                                                                                                                   A; 6 C; 4 G; 7 T; 0 U;
                                                                                                                                   0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      stranded nucleic with a restriction
                                                1056
                                                                                                      <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           restriction
                                                                                                                                   Score 14.8
Pred. No.
                                                                                                                                                                                                                                                                      in a given DNA segment
                                                                                                         Mismatches
                                                                                                                                                          14.8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               acids using
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                                                                                                                                                                                                                   0 Other;
                                                                                                                                   .1e+03
                                                                                                                                                             DB 1;
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                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               an iterative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (#40), used with PCR (consisting of a conductance regulator
                                                                                                      0;
                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                               double
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 RESULT 1636
AAT35321/c
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Best Local S
Matches 16
                                                                                                                                                                                                                  26-JUN-1991;
31-JAN-1992;
01-DEC-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Oligonucleotides derived from introns of the endoglin gene can be used as primers for amplifying a single exon of the endoglin gene for its use in diagnosis of haemorrhagic telangiectasia (HHT). DNA encoding endoglin can be used for gene therapy of HHT which is caused by inheritance of a defective gene, e.g. endoglin, beta-glycan, TGF-beta type I or II receptor or TGF-beta/activin Type I receptor. Two primers (AAT13769, AAT13770) were used to amplify a 227 base pair exon sequence of the endoglin gene. Primer pairs used in this method are described in AAT13757
                                                                                                                                                                                                                                                                                                                                                      Homo
                                                                                                                                                                                                                                                                                                                                                                                          PTP; protein tyrosine phosphatase; SH2; Src homology region chromosome 12p; abnormality; mutation; detection; probe; necancer; leukaemia; diagnosis; megakaryocyte regulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human gene for endogli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 1996-286827/29.
AAT35314-T35327 are a set of PCR primers used to amplify regions of the human cDNA sequence encoding SH-PTP1 (protein tyrosine phosphatase-1, with two SH2 domains). The primers are used in the analysis of the SH-
                                                                              Detecting 12p chromosomal abnormality associated with neoplastic disease - using SH-PTP1 protein tyrosine phosphatase gene specific probe.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            25-MAR-2003
13-NOV-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAT35321;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAT35321 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 22 BP; 2 A; 9 C; 4 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Disclosure; Page 13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             telangiectasia.
                                                                                                                                                                                                                                                                                                 16-JUL-1996
                                                                                                                                                                                                                                                                                                                           US5536636-A.
                                                                                                                                                                                                                                                                                                                                                                               polymerase chain
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human SH-PTP1
                                                                                                                                                                                                                                                                       28-FEB-1994;
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                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                     sapiens.
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                                                                                                                                                                           BETH ISRAEL HOSPITAL ASSOC.
MASSACHUSETTS INST TECHNOLOGY.
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                                                   Fig 9; 63pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AGAGTCAGGAGGGAGACA
                                                                                                                                               Rosenberg
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                                                                                                                                                                                                                                                                                                                                                                                                                                                gene PCR primer,
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92US-00829141.
92US-00983926.
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agnosis and
                                                                                                                                                                                                                                                                       94US-00202389
                                                                                                                                                                                                                                                                                                                                                                                 reaction;
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                                                                                                                                                RD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             88.9%;
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nd gene therapy of hereditary haemorrhagic
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                                                                                                                                                 Freeman RM,
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Pred. No. 1.
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                                                                             phosphatase gene specific probe
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                                                                                                                                                                                                                                                                                                                                                                                                        probe; neoplasia;
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Query Match
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Conservative

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0.3%;

Score 14.8; DI Pred. No. 1.1e. 0; Mismatches

.1e+03 DB 1;

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Gaps

0,

Sequence

22

BP; 5 A; 5 C; 9

G; 3 T; 0 U; 0 Other;

This oligonucleotide is used for constructing a pyruvate decarboxylase enzyme encoding DNA. A recombinant vector comprising this encoding DNA sequence can be used for improving pyruvate decarboxylase activity in a host cell. A recombinant plasmid pCRPDCI comprising the pyruvate decarboxylase DNA sequence was recombined downstream of the promoter of alpha-tublin gene from Chlamydomonas. The recombinant fine algae cell had an improved pyruvate decarboxylase activity. The algal cell may be used to produce ethanol by culturing it in a suitable medium. The method can prepare ethanol more efficiently than conventionally used methods

See to the State Backers of the 12 State of the

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RESULT 1637
AAV17078/c
ID AAV1707
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PTP1 gene of patients with acute lymphoblastic leukaemia (ALL). A fragment complemetary to the SHPTP-1 sequence from nucleotides 537-653 is used as a probe to detect a chromosome 12p13 abnormality associated with neoplastic disease, in partic. ALL. The probe hybridises to a part of the region coding for the two tandem SH2 domains (see AAR99312). If the probe will not hybridise DNA of chromosome 12p13 from a patient sample it is indicative of an abnormality, normally associated with neoplasia. Alternatively the wild-type SH-PTP1 or SH-PTP2 gene or protein may be used for comparison to sequenced PTP genes taken from a patient, where differences indicate an abnormality. The activity of SH-PTP1 may also be purposely altered by mutation to effect a change in megakaryocyte function and hence platelet production. (Updated on 25-MAR-2003 to
                                                                                                                                                                            New pyruvate decarboxylase gene - production of ethanol.
                                                                                                                                                                                                                                                                                                                                                                                                               pyruvate decarboxylase; ethanol; alpha-tubulin gene; fine alga cell;
recombinant; Chlamydomonas reinhardtii; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Oligonucleotide 6 for constructing pyruvate decarboxylase DNA
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AAV17078 standard;
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correct PF field.)
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                                                                                                                                                                                                                                                                                                                                                                                       Synthetic.
                                                                                                                                                     Example;
                                                                                                                                                                                                                                                                                                                                                                           Chlamydomonas
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                                                                                                                                                     Page 13; 15pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CATCAATGCCAACTACAT
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Pred. No. 1
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ARESULT 1634
AAQ84778
ID AAQ8477
XX AAQ8477
XC AAQ8477
XC AAQ8477
DT 25-MAR-
DT 22-SEP-
XX Human-8
XX Primer;
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Best Local S
Matches 16
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Best Local S
Matches 16
          Primer; PCR; amplify; mouse; CD34 gene; probe; yolk sac; marker gene; differentiation; hematopoietic; stem cell; MHC class; blood; transplant; tissue rejection; chimeric tissues; human; globin; ss.
                                                                                                                                                                                                                                                                                             AAQ74042-Q74044 are primers used for the amplification of human interferon-gamma (AAQ74060). They are used specifically for the detection and isolation of this sequence. The primers have the advantage of high sensitivity and reliability and are useful in the pharmaceutical industry
                                                      Human-specific beta-globin amplification
                                                                            25-MAR-2003
22-SEP-1995
                                                                                                                                AAQ84778 standard;
                                                                                                                                                                                                                                                                          Sequence 22 BP; 2 A; 5 C; 5 G; 10 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                       A primer for the detection and the determn. of a specific messenger RNA can detect and determine specific mRNA(s) with high reliability.
                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1995-211627/28.
                                                                                                                                                                                                                                                                                                                                                                                                                                                    05-NOV-1993;
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                                                                                                                                                                                                                                                                                                                                                    Claim 1; Page 15; 35pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         05-NOV-1993;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human interferon gamma primer.
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                                                                           (revised)
(first entry)
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                                                                                                                                   DNA;
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Pred. No. 1.
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                                                                                                                                                                                                                                                     Length 22;
                                                      primer.
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RESULT 1635
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Best Local
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                                                                                                                                                                  Endoglin; TGF-beta; beta-glycan; receptor; diagnosis; detection;
gene therapy; haemorrhagic telangiectasia; ss.
                                                                                                                                                                                                                         17-DEC-1996
                  (UYDU-)
(HSCR-)
                                                    29-NOV-1994;
                                                                          29-NOV-1995;
                                                                                                 06-JUN-1996.
                                                                                                                       WO9616975-A1
                                                                                                                                                                                                 Primer for amplifying endoglin exon sequence.
                                                                                                                                                                                                                                               AAT13770;
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                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 22
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06-APR-1994;
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                  UNIV DUKE.
HSC RES & DEV LP
                                                                                                                                                                                                                                                                                                                                                                                  Similarity
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                                                                                                                                                                                                                                                                      standard;
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                                                     94US-00346129
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94US-00223902
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Pred. No. 1.1e+03;
0; Mismatches 2
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Marchuk DA,

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RESULT 1631
ADN61550/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CC The present invention describes an assay for detecting fungal infection CC of soil or vegetables by pathogenic fungal species, particularly CC Microcentrospora acerina, Fibularnizoctonia carotae or Pythium species. CC The assay comprises: (1) obtaining a sample of soil or vegetable; (2) treating the sample to lyse fungal cells; (3) effecting a PCR on DNA CC released by lysis of the fungal cells; (3) effecting a PCR on DNA CC pair; and (4) detecting DNA fragments generated by the PCR. Also CC described: (1) an 18-24-mer oligonucleotide primer by pridisable to an CC oligonucleotide sequence selected from SEQ ID NO:1 to 28; (2) a substrate CC primer composition comprising a pair of 18-24-mer oligonucleotide primers (3) a CC primer composition comprising a pair of 18-24-mer oligonucleotide primers (2); (4) a kit for performing the assay method, for nucleic acid extraction CC from soil or for pathogen DNA extraction from host vegetable tissue; (5) CC extracting nucleic acid from the soil; and (6) extracting pathogen DNA CC infection of soil or vegetables by pathogenic fungal species, CC particularly Microcentrospora acerina, Fibularhizoctonia carotae or CC Pythium species. The present sequence represents a PCR primer for used in the exemplification of fungal infection, which is used in the exemplification
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Best Local (
                     Detecting fungal infection of soil or vegetables by Microcentrospora acerina, Fibularhizoctonia carotae or Pythium species by treating the sample of soil or vegetable and effecting a PCR on DNA released by lysis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         detection; fungal infection; soil fungal infection; vegetable fungal infection; pathogenic fungus; Microcentrospora Fibularhizoctonia carotae; Pythium; PCR; primer; ss.
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                                                                                                                                                                                      Hermansen
                                                                                                                                                                                                                                       (CARR-)
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01-NOV-2002; 2002GB-00025551
                                                                                                                                                                                                                                                                                                                                                                                             31-OCT-2003; 2003WO-GB004712
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO2004040017-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Fungal infection
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                                                                                                                                  2004-376207/35
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fungal cells.
                                                                                                                                                                                                                                    CARROTECH AS.
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                                                                                                                                                                                      Klemsdal
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   detection related PCR primer IIb
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                                                                                                                                                                                   Naerstad R,
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No. 1.
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The present invention of soil or vegetables

describes an assay for detecting fungal i by pathogenic fungal species, particularl

infection

The invention comprises oligonucleotides that detect polymorphisms within the pig KIT gene. The oligonucleotides of the invention may also detect polymorphisms within the pig melantides estimulating hormone-receptor (MCIR) gene. The oligonucleotides of the invention are useful for discriminating a variety of pig. The present DNA sequence represents a capture oligonucleotide that was used in an example of the invention.

ID NO 5;

70pp; Japanese.

Claim 1;

SEQ

IJ

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4.

44pp;

English

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RESULT 1632
ADP88014/c
ID ADP88014;
XX ADP88014;
AC ADP88014;
XX Pig KIT/MC1R gene ca XX Pig porcine; polymow melanocyte stimulation with capture oligonucleot XX ADP8004187528-A.
XX JP2004187528-A.
XX O9-DEC-2002; 2002JP-XX O9-DEC-2002; 2002JP-XX ON-DEC-2002; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                88888888888888888888888
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                   Oligonucleotide, useful for discriminating between varieties detecting specific polymorphisms of KIT and melanocyte stimul hormone-receptor (MCIR) gene by hybridizing capture oligonucl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pig KIT/MC1R gene capture oligonucleotide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            pig; porcine; polymorphism detection; KIT gene;
melanocyte stimulating hormone-receptor gene; M
                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2004-512303/49.
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                                                                                                                                                                                                                                                                                                          acid of pig.
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Pred. No. 1.1e
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                   between varieties of pig by melanocyte stimulating capture oligonucleotides ar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MC1R
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The specification describes a method for prediction of genetic risk of development of hypertension. The method comprises analysis the genotype of specific gene polymorphisms in a clinical nucleic acid sample. The gene polymorphisms analysed are one or both of the following two sets: variation at base 1648 of glycoprotein 1a gene, variation at base 190 of chemokine receptor 2 gene, variation at base 1100 of apolipoprotein C-III gene, variation at base 825 of C-protein beta 3 subunit gene, and variation at base 825 of tumour necrosis factor alpha gene, variation at base 3494 of insulin receptor substrate 1 gene, variation at base 3494 of insulin receptor substrate 1 gene, variation at base 3494 of insulin receptor substrate 1 gene, variation at base 3494 of insulin receptor substrate 1 gene, variation at base 3494 of insulin receptor substrate 1 gene, variation at base 3494 of insulin receptor substrate 1 gene, variation at base 3494 of insulin receptor substrate 1 gene, variation at base 3494 of insulin receptor substrate 1 gene, variation at base 3494 of insulin receptor substrate 1 gene, variation at base 3494 of insulin receptor substrate 1 gene, variation at base 3494 of insulin receptor substrate 1 gene, variation at base 3494 of insulin receptor substrate 1 gene, variation at base 3494 of insulin receptor substrate 1 gene, variation at base 3494 of insulin receptor substrate 1 gene, variation at base 3494 of insulin receptor substrate 1 gene, variation at base 3494 of insulin receptor substrate 1 gene, variation at base 3494 of insulin receptor substrate 1 gene, variation at base 3494 of insulin receptor substrate 1 gene, variation at base 3494 of insulin receptor substrate 1 gene, variation at base 3494 of insulin receptor substrate 1 gene, variation at base 3494 of insulin receptor substrate 1 gene, variation at base 3494 of insulin receptor substrate 3494 of insulin
                                                                                                                                                                                                                                                                                                                                                                                 ss; antiarteriosclerotic; laminin A; mutation; diagnosis; progeroid disease; Hutchinson-Gilford Progeria Syndrome;
  Eriksson
                                                                (PROG-)
(NYME-)
                                                                                                                           18-OCT-2002;
14-APR-2003;
                                                                                                                                                                                            17-OCT-2003; 2003WO-US033058
                                                                                                                                                                                                                                      29-APR-2004.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      Microsatellite
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Analysis of specific single polynucleotide polymorphisms in a prediction of the genetic risk of developing hypertension.
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                                       PROGERIA RES FOUND INC.

NEW YORK STATE OFFICE MENTAL HEZ

US DEPT HEALTH & HUMAN SERVICES
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  MBH,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                              2002US-0419541P.
2003US-0463084P.
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INT INST BIOTECHNOLOGY.
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  Collins FS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                   analysis primer
                                                                                                                                                                                                                                                                                                                                                               atherosclerosis; primer;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ВP
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  Gordon LB,
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Brown
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RESULT 1630
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Best Local (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           comprising determining whether a subject has mutation in a subject the mutation comprises a variant nucleic acid sequence in or corresponding to codon 608, 644, 145, 471, 527 or 269 of human LMNA, two or more mutations. The methods and compositions of the present invention are useful for the diagnosis, prevention and/or treatment o diseases or conditions associated with the mutation of LMNA, such as progeroid disease that is Hutchinson-Gilford Progeria Syndrome, or arteriosclerosis or atherosclerosis. This sequence corresponds to a primer used in a microsatellite analysis of chromosome 1g21.3-23.1 containing the laminin A gene.
                                                                                                                                                                                                                                                                                                               detection; fungal infection; soil fungal infection; vegetable fungal infection; pathogenic fungus; Microcentrospora acerina; Fibularhizoctonia carotae; Pythium; PCR; primer; ss.
                                                                                                                                                                              01-NOV-2002; 2002GB-00025550
01-NOV-2002; 2002GB-00025551
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Detecting a biological condition associated with a dominant laminin A (LMNA) mutation, useful for diagnosing, preventing or treating a progeroid disease that is Hutchinson-Gilford Progeria Syndrome, and/on arteriosclerosis.
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                                                                                             WPI; 2004-376207/35.
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                                                                                                                                                                                                                                                                                        Synthetic
                                                                                                                                                                                                                                                                                                              Fibularhizoctonia
                                                                                                                   Hermansen A,
                                                                                                                                                                                                                                                                WO2004040017-A2
                                                                                                                                                                                                                                                                                                                                                               Fungal infection
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                                                                                                                                           CARROTECH A
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Pred. No. 1.
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Detecting fungal infection of soil acerina, Fibularhizoctonia carotae sample of soil or vegetable and eff of the fungal cells.

oil or vege stae or Pyth leffecting

vegetables by Microcentrospora Pythium species by treating the ting a PCR on DNA released by lysis

Claim 1; SEQ ID

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RESULT 1626
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Matches 16
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Matches 16
                                                                                                                                      The invention describes a method of identifying a human leukocyte antigen (HLA) genotype of a subject comprising; obtaining a sample comprising a template nucleic acid from the subject; amplifying the template nucleic acid with HLA allele-specific forward primers and HLA allele-specific reverse primers to form amplification products; hybridising the amplification products with an HLA locus-specific capture oligonucleotide; and detecting the detectable complexes to identify the HLA genotype of the subject. The present sequence represents one of 276 HLA locus-specific capture oligonucleotides of the invention.
                                                                                                                                                                                                                                                                                                              Identifying an HLA genotype of a subject by hybridizing the amplification products with an HLA locus-specific capture oligonucleotide and detecting the detectable complexes to identify the HLA genotype of the subject.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       bacterial, fungal or parasitic infection. The disease may also be cancer, inflammatory disease, cardiovascular disease, metabolic disease, neurological disease and may have a genetic basis. The methods are useful for screening for and monitoring the disease. The present sequence represents a PCR primer for a major urinary protein (MUP), which is used in an example from the present invention.
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                                                                                                              Sequence 21
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CTCCATGAGGTATTTCAC
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                                                                                                              BP; 5 A; 7 C; 3 G; 6 T; 0 U; 0 Other;
                                                        Conservative
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                                                                    Score 14.8;
Pred. No. 1
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Pred. No. 1
                                                       Mismatches
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                                                                    1.1e+03;
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                                                                                  DB 1;
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RESULT 1627
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Matches 16
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                                                                                                     glycoprotein 1balpha; human;
                                                                                                                           hypertension; gene polymorphism; glycoprotein la; chemokapolipoprotein C-III; G-protein beta3 subunit; tumour necrosis factor alpha; insulin receptor substrate
                                                                                                                                                                                                                                   Nucleotide sequence of human polynucleotide #23.
                                                                                                                                                                                                                                                                                                                                         ADO44053;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Analysis of specific gene polymorphisms in clinical nucleic acid sample for prediction of risk of restenosis after balloon or stent coronary angioplasty.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic
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coronary angioplasty; ss; primer; primer.
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Pred. No. 1.1e
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                                                                                                                                                                                   chemokine
                                                                                                                                                                                   receptor
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WO2004029243-A1

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RESULT 1624
ADK96280/c
ID ADK9628
XX ADK9628
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XX DF imer
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XX DF OS Synthe
XX JP2003
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XX HAMAI
XX OB-MAI
XX WPI;
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XX WOVel
PT fragm
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cc more polymorphisms selected from groups including the polymorphism of the case at position 1019 in connexin 37 gene, the polymorphism of the base at position -863 in tumour necrosis factor alpha gene, and the cc at position -863 in tumour necrosis factor alpha gene, and the cc polymorphism of the base at position 4070 in apolipoprotein E gene, which crelated to myocardial infarction; (b) determining the genotype of a cc nucleic acid sample based on the polymorphism data obtained in (a); and cc genotype determining the genetic risk of myocardial infarction from the cc genotype determining the genetic risk of myocardial infarction from the cc genotype determining the nucleic acid sample based on the obtained cc polymorphism data, and determining genetic risk of myocardial infarction for the determined genotype; (2) a kit for detecting genotypes containing cor more polymorphisms of the defined genes; and (3) immobilised nucleic acids obtained by fixing 2 or more of the already specified gene onto an insoluble support. The method can be used for diagnosing risk from consoluble support. The method can be used for diagnosing risk from consoluble support. The method can be used for diagnosing risk from consoluble support to the determination for appropriate treatment and also in the study of onset consoluble for appropriate treatment and also in the study of onset consoluble for appropriate treatment and also in the study of onset consoluble for a propriate treatment and also in the study of onset consoluble for a propriate treatment and also in the study of onset consoluble for the present invention.
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         gene and is useful for detecting a single nucleotide polymorphi human gene or for diagnosing of disease. The invention enables detection of a single nucleotide polymorphism in a human gene.
                                                                                                                                                          Claim 2;
                                                                                                                                                                                                     nucleotide polymorphism in
                                                                                                                                                                                                                                                Novel polynucleotide useful for PCR amplification along with two DNA
                                                                                                                                                                                                                                                                                           WPI; 2004-093977/10.
                                                                                                                                                                                                                                                                                                                                                                                    08-MAR-2002; 2002JP-00064373
                                                                                                                                                                                                                                                                                                                                                                                                                             08-MAR-2002; 2002JP-00064373
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   JP2003259875-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     human; single nucleotide polymorphism; SNP; ss; primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Primer of the invention #2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           06-MAY-2004
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                                                                                                                                                                                                                                                                                                                                         (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     742
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16; Conserv
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                                                                                                                                                        NO 5309; 2627pp; Japanese.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     759
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Pred. No. 1.1e
O; Mismatches
                                                                                                                                                                                                                            sequences,
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                                                                                                                                                                                                                            detecting
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                                               gene. The
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          cc nucleic acid sequence (S1) encoding a protein of the lipocalin protein cf family, and a nucleic acid sequence (S2) encoding a peptide sequence of 5 cc -250 maino acid residues. Also described: (1) a nucleic acid construct cc (II) comprising a stress inducible promoter operatively isolated from a cnucleotic acid sequence encoding a member of the lipocalin protein family comprised by a nucleotide sequence flanked by nucleic acid sequences recognised by cc by a nucleotide sequence flanked by nucleic acid sequences recognised by cc with respect to the transcription unit encoding a member of the lipocalin comprised by the respect to the transcription unit encoding a member of the lipocalin comprised protein family, in which the construct additionally comprises a nucleic acid sequence comprising a tissue specific promoter operatively linked to cold sequence comprising a tissue specific promoter operatively linked to call a pene ancoding sequence for the site specific recombinase; (2) a sene encoding the coding sequence for the site specific recombinase; (2) a host cell transfected with (I) or (II); (3) a transgenic non-human cc animal comprising cells expressing the protein encoded by (I) or (II); (3) and the beaution of a peptide transgenic animal of (3) in which the cell or animal is subjected to a gene activation event that is compared by expression of a peptide transgenic animal are useful in the detection of gene activation events. The gene activation events continued to the transfected with toxicological stress, metabolic contents and contents are preferably associated with toxicological stress, metabolic contents and contents are useful and transgenic animal are useful and transgenic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
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Best Local :
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Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            transgenic animal; detection; gene activation; toxicological stress metabolic change; disease; infection; cancer; inflammatory disease; cardiovascular disease; metabolic disease; neurological disease; major urinary protein; MUP; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 21 BP; 3 A;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2004-143876/14.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Whitelaw CBA, Clark
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 26-JUL-2002; 2002GB-00017402.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                lipocalin protein family; stress inducible promoter; lipocalin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Murine major urinary protein (MUP) related PCR primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADJ47697;
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CXR BIOSCIENCES LTD.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Page 44; 69pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                       invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         construct useful for 
uced by toxicological
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                    describes a nucleic acid construct (I) comprising a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Wolf
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             English
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Pred. No. 1
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disease is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         detecting gene activation events such stress, metabolic changes, cancer, or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       U; 0 Other;
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention describes an assay for phenotyping the patched status of a cell comprising detecting in a sample of mammalian cells the presence or absence of a genetic lesion having aberrant modification or mutation of a patched gene or mis-expression of the patched gene. The assay is useful for diagnosing a genetic predisposition of an animal, e.g. basal cell nevus syndrome, predisposition for developing tumour, i.e. carcinoma, meningioma, medulloma, or fibroma. A genetic construct encoding a patched polypeptide is used to treat an animal having a disorder comprising loss of function of a wild-type patched gene, such as cancer, and can enhance patch function in e.g. wound healing and aging. This sequence represents a priner used to determine the intron/exon boundaries of the human
Method for diagnosing risk from myocardial infarction based on gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 21 BP; 5 A; 3 C; 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Phenotyping the patched status of a cell for diagnosing a genetic predisposition for a tumor comprises detecting the presence or absence of a genetic lesion having aberrant modification, mutation or mis-expression
                             WPI; 2004-099122/10.
                                                                                                                                                                                                                                                                                                                 myocardial infarction; polymorphism; genotype; genetic risk; human;
                                                                                                                                                                                                                                                                                                                                               Human glycoprotein Ib alpha (1018C-T) polymorphism primer SEQ ID NO:52
                                                                                                                                                                                                                                                                                                                                                                                25-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; Page 21; 60pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  22-AUG-1997; 97US-00918658.
28-NOV-2000; 2000US-00724631.
                                                                                                                                  21-JUN-2002; 2002JP-00181580
                                                                                                                                                                20-MAR-2003; 2003WO-JP003477.
                                                                                                                                                                                              31-DEC-2003
                                                                                                                                                                                                                          WO2004001037-A1
                                                                                                                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                           Synthetic.
                                                                                                                                                                                                                                                                                                      primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                              ADH43868
                                                                                                                                                                                                                                                                                                                                                                                                                                          ADH43868 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     patched gene (ptc).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2004-041193/04.
                                                                                      (NAGO-) NAGOYA IND SCI RES INST.
(GIFU-) GIFU INT INST BIOTECHNOLOGY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   the patched gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4453 GAACACTCATGATGTGCC 4470
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ) UNIV LELAND STANFORD JUNIOR.
) UNIV CALIFORNIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               16;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GAATACTGATGATGTGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Goodrich LV,
                                                          Yokota M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                          DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                          21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 14.8; DB 1;
Pred. No. 1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 21;
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RESULT 1623
ADH43888/c
ID ADH4388
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                information for appropriate treatment and association is given in the mechanism. The present sequence represents a primer which is given in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                            myocardial infarction; polymorphism; genotype; genetic risk;
                                                                                                                                                                                                                                                                                                                                                                                                                                              Human glycoprotein Ib alpha (1018C-T) polymorphism primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADH43888 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 21 BP; 2 A; 5 C; 7 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention describes a method for diagnosing myocardial infarction. The method comprises: (a) the ana
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             polymorphisms for genotype determination, supplementary information for appropriate
                                                                                                                    Yamada
                                                                                                                                                                                                      21-JUN-2002; 2002JP-00181580
                                                                                                                                                                                                                                      20-MAR-2003; 2003WO-JP003477
                                                                                                                                                                                                                                                                          31-DEC-2003.
                                                                                                                                                                                                                                                                                                          WO2004001037-A1
                                                                                                                                                                                                                                                                                                                                                              Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                              primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  25-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADH43888;
                                                                                                                                                                                                                                                                                                                                            domo sapiens.
                                                                                                                                                    (GIFU-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                742 CCAAGCTGGACCAGCTCA 759
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        18
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                                                                                                                                                    NAGOYA IND SCI RES INST
GIFU INT INST BIOTECHNO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CCAAGCTGGAGAAGCTCA 1
                                                                                                                  Yokota M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ID NO 52; 135pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           88.9%;
                                                                                                                                                    BIOTECHNOLOGY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 14.8; DB 1
Pred. No. 1.1e+03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               applicable in treatment.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            <u>ب</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             gnosing the risk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           analysis of 2 or polymorphism of the rphism of the base
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                                                                                                                                                                                                                                                                                                                                                                                                                human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20
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Method for diagnosing risk from myocardial infarction based on polymorphisms for genotype determination, applicable in providi supplementary information for appropriate treatment.

determination, applicable for appropriate treatment.

providing

WPI; 2004-099122/10

DNA

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RESULT 1620
ADJ13157/c
ID ADJ1315
XX
AC ADJ1315
XX
DT 20-MAY-
XX
DE Human E
XX
DE Human E
XX
DE Homo Ba
XX
PN US20031
XX
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                                                                                                                                                                                                                                                                                                                    Query Match
Best Local
                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                    different base sequences depending upon the presence or absence of the modification of interest. Accordingly, a device comprising an array of probes is provided to hybridise with and select the altered DNA sequences that comprise the modifications of interest such as a CpG island. In particular, this invention refers to analysing the methylation pattern of a region of the promoter for the tumour suppressor gene p16 from two human lung tumour cell lines H69 and H1618. This oligonuclectide sequence is a human DNA probe used to immobilise CpG methylated DNA of the invention.
                                                                  probe;
tumour
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     probe;
                US2003152950-A1
                                        Homo sapiens
                                                                                                       Human DNA probe used to immobilise CpG methylated DNA SeqID 284.
                                                                                                                                                                                     ADJ13157 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     modification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This invention relates to a novel method for analysing chemically modified macromolecules. Specifically, it refers to a high throug
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Analysis of chemical modification of DNA involves obtaining sample of DNA to be analyzed, treating DNA with chemical reagents that result in different base sequences, and determining sequence of resulting DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Garner
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human
                                                                                                                                  20-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 1; SEQ ID NO 976; 210pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2003-874843/81.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (GARN/)
(MINN/)
(LUEB/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US2003152950-A1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             27-JUN-2002; 2002US-00184085.
                                                                                                                                                                                                                                                                               2817
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           sapiens.
                                                                                                                                                                                                                                                        19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DNA probe used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ed macromolecules. Specifically, it refers to a high throughput for the parallel analysis of many potential sites of chemical catton (e.g. methylation) in DNA. The present invention describes ng the DNA with one or more chemical reagents that result in
                                                                                                                                                                                                                                                                                                         l Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 88;
                                                                 ss; chemical suppressor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HR, Minna JD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  suppressor; p16; human; H69; H1618.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BALOG R P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MINNA J D.
LUEBKE K J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GARNER H R.
                                                                                                                                                                                                                                                                       GAAGGAAGTGAGGGGGAG
                                                                                                                                                                                                                                                        GATGGATGTGAGGGGGAG
                                                                                                                                                                                                                                                                                                                                                             21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 chemical modification;
                                                                            chemical modification; methylation;
                                                                                                                                                                                                                                                                                                                                                           B₽;
                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                           3 A;
                                                                  p16;
                                                                                                                                                                                                                                                                                                                     0.3%;
                                                                                                                                                                                                                                                                                                                                                           12
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                                                                    human;
                                                                                                                                                                                     21
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                                                                                                                                                                                      ВP
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                                                                                                                                                                                                                                                                                                                     Score 14.8;
Pred. No. 1.
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                                                                    H69;
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                                                                                                                                                                                                                                                                                                         Mismatches
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                                                                                                                                                                                                                                                                                                                                                           0 U;
                                                                                                                                                                                                                                                                                                                     8; DB 1;
1.1e+03;
                                                                                                                                                                                                                                                                                                                                                           0 Other;
                                                                             array;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 array; CpG island;
                                                                                                                                                                                                                                                                                                                                 Length 21;
                                                                                                                                                                                                                                                                                                         Indels
                                                                             CpG island;
                                                                                                                                                                                                                                                                                                         0
                                                                                                                                                                                                                                                                                                         Gaps
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07-OCT-1994; 06-OCT-1995; 31-MAY-1996;

94US-00319745. 95US-00540406. 96US-00656055.

22-APR-2003; 2003US-00421446

02-OCT-2003

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RESULT 1621
ADE49003
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Matches 16; Conserv
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This invention relates to a novel method for analysing chemically modified macromolecules. Specifically, it refers to a high throughput method for the parallel analysis of many potential sites of chemical modification (e.g. methylation) in DNA. The present invention describes treating the DNA with one or more chemical reagents that result in different base sequences depending upon the presence or absence of the modification of interest. Accordingly, a device comprising an array of probes is provided to hybridise with and select the altered DNA sequences that comprise the modifications of interest such as a CpG island. In particular, this invention refers to analysing the methylation pattern of a region of the promoter for the tumour suppressor gene p16 from two human lung tumour cell lines H69 and H1618. This oligonucleotide sequence is a human DNA probe used to immobilise CpG methylated DNA of the
                                                                                                                                                                            cytostatic; vulnerary; gene therapy; phenotyping; patched status; patched gene; genetic predisposition; basal cell nevus syndrome; tumour; carcinoma, meningioma; medulloma; fibroma; cancer; wound healing; aging; human; pathched gene; ptc; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Analysis of chemical modification of DNA involves obtaining sample of
to be analyzed, treating DNA with chemical reagents that result in
different base sequences, and determining sequence of resulting DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 21
                                                                                                                    US2003186309-A1
                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                       Human patched gene (ptc) intron boundary related primer
                                                                                                                                                                                                                                                                                       29-JAN-2004
                                                                                                                                                                                                                                                                                                                                                 ADE49003 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 1; SEQ ID NO 284; 210pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Garner HR, Minna JD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (LUEB/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (GARN/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     27-JUN-2001; 2001US-0301370F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   27-JUN-2002; 2002US-00184085
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                                                                                                                                                                                                                                                                                                                                                                                                                                                       2817 GAAGGAAGTGAGGGGGAG 2834
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ) GARNER H R.
) MINNA J D.
) LUEBKE K J.
) BALOG R P.
                                                                                                                                                                                                                                                                                                                                                                                                                           GATGGATGTGAGGGGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BP; 4 A;
                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               12 C; 0 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Luebke KJ,
                                                                                                                                                                                                                                                                                                                                                                                                                           N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 14.8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                         #11.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
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antiarteriosclerotic; neuroprotective; nootropic; antiparkinsonian;

THE PROPERTY AND ADDRESS.

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ADJ81954
ADJ81954
ID ADJ8195
XX ADJ8195
AC ADJ8195
XX ADJ8195
ADJ8195
XX ADJ8195
XX ADJ8195
AD
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local
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11-MAR-2002;
06-JUN-2002;
29-AUG-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to a double-stranded short interfering nucleic (siNA) molecule that down-regulates expression of an endogenous mamma target gene comprising one or more chemical modifications and each st of the double-stranded siNA comprises about 21 nucleotides. The siNA the invention demonstrates antiarteriosclerotic, neuroprotective, nootropic, antiparkinsonian and anticonvulsant activities and may be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mcswiggen Jamison S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     anticonvulsant; pulmonary disease; restenosis; atherosclerosis; Alzheimer's; Parkinson's; epilepsy; dementia; huntington's; amyotrophic lateral sclerosis; gene therapy; ss; DNA-RNA hybrid; FOS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              that responds to modulation of gene expression or activity in a cell, tissue or organism. The disease or condition may include pulmonary diseases such as restenosis, altherosclerosis, Alzheimer's disease, Parkinson's disease, epilepsy, dementia, huntington's disease or amyotrophic lateral sclerosis. Furthermore, the siNA may be utilised for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Unidentified.
                                               Rat P-type ATPase protein cDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2003-731676/69.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20-FEB-2003; 2003WO-US005028
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                                                                                                                                 06-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New double-stranded short interfering nucleic acid molecule, useful for down-regulating the expression of an endogenous mammalian target gene o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               05-SEP-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      12-SEP-2003
                                                                                                                                                                                                                                                                                                ADJ81954 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 useful for down-regulating the expression of an endogenous mammalian target gene and therefore in the treatment of any disease or condition
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   for treating diseases that respond to modulation of gene expression or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (SIRN-) SIRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     therapy applications. hybrid of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4777 CCTGGCTTCTCAGTTCTT 4794
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CUUGGCUUCUCAGUUGTT
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2002US-0363124P.

; 2002US-0386782P.

; 2002US-0406784P.

; 2002US-0408378P.

; 2002US-0409239P.

; 2003US-0440129P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQ ID NO 515; 593pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Usman
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                                                                                                                                 (first entry)
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Rman N, Thompson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                THERAPEUTICS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0.3%;
55.6%;
                                                                                                                                                                                                                                                                                                    ВÞ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The current sequence is that of the sina DNA-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Chowrira
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 14.8;
                                               primer r212TR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ç
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               В,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .1e+03
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Þ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Fosnaugh
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           mammalian
ach strand
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
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RESULT 1619
ADJ13849/c
ID ADJ1384
XX
AC ADJ1384
XX
DT 20-MAYXX

20-MAY-2004 ADJ13849;

(first entry)

ADJ13849 standard;

DNA;

21

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89

CAGAAGTGGCCACAACTC CAGAAGTGGGCAGAACTC

106 20

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The invention relates to novel proteins (I) of human origin including CC TCH220 (a vanilloid receptor protein), TCH212 (a P-type ATPase protein), CC TCH230 (a sodium-dependent bile acid transporter protein) and TCH234 (a CC Na + /H + exchange transporter protein) (and other protein) and TCH234 (a CC activities), are new. he protein and encoding genes are useful for the grevention and treatment of a wide range of diseases including CC hyperlipemia, arteriosclerosis, diseases of the reproductive organs, CC diseases of the digestive system, nervous system diseases, kidney CC diseases, respiratory diseases, pancreas diseases, inflammatory CC diseases, respiratory diseases, pancreas diseases, inflammatory CC diseases, respiratory disease, ulcerative colitis, benign prostate CC hypertrophy, prostatitis, chemorrhegic colitis, asthma, bronchitis, CS joegren's disease, multiple sclerosis, digestive system ulcer, hay CC ever, anaphylactic shock, atopic dermatitis, chronic rheumatoid CC archivitis, leukopenia, spleen hypofunction, diabetes, heart failure, QT CC disease, angina pectoris, pancreatitis, lupus erythematodes, and cancer CC bladder, stomach and intestine. This sequence corresponds to a primer colleder, stomach and intestine. This sequence corresponds to a primer content.
Matches
                            Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-FEB-2002;
01-FEB-2002;
06-FEB-2002;
08-FEB-2002;
21-FEB-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Proteins TCH200, TCH212, TCH230 and TCH234 of human origin and DNA encoding them for treatment and prevention of a wide range of diseincluding digestive, blood, respiratory and pancreatic disorders.
                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 32; SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           18-JAN-2002;
24-JAN-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16-JAN-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO2003062274-A1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ss; primer; antilipemic; antiarteriosclerotic;
                                                                                                                                                                            used to clone the sequences of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (TAKE )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2003-636729/60
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16;
                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Hikichi Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TAKEDA CHEM IND LTD.
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2002JP-00033111.
2002JP-00045058.
2002JP-00046951.
Conservative
                                                                                                                       BP; 8 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2002JP-00010840.
2002JP-00015995.
2002JP-00025662.
2002JP-00025706.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NO 151;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sagiya Y,
                            0.3%;
                                                                                                                       5 C; 6 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            341pp; Japanese.
0
                            Score 14.8;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Nakanishi A;
   Mismatches
                               .1e+03;
                                                           DB 1;
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vasotropic; antirheumatic;
                                                           Length
      Indels
<u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       diseases
   Gaps
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RESULT 1616
ADG29941
ID ADG2994
XX
AC ADG2994
XC ADG299
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ADF18619/c
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                                                                                                                                                                                                                                                                                                                    Query Match
Best Local S
Matches 16
double-stranded short interfering nucleic acid; siNA; antiarteriosclerotic; neuroprotective; nootropic; antiparkinsonian;
                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention relates to a method of treating ileus in a patient by administering a pharmaceutical composition that includes carbon monoxide. In an example from the invention, the suppression by CO of ileus associated with surgical manipulation of the small intestine was demonstrated in an animal (murine) model. Real-time PCR was used to examine pro- and anti-inflammatory cytokine expression following surgery and the effects of CO. The present sequence is that of a PCR primer for haem oxygenase (HO-1), which was used in this real-time PCR. CO
                                                     FOS-targeted
                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Treatment of ileus (e.g. ileus of the comprises identification of ileus and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO2003088923-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Haem oxygenase; ileus; gastrointestinal-gen; carbon monoxide; mouse; PCR; primer; enzyme;
                                                                                                                                                            ADG29941 standard; RNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  composition comprising
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENBANK;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2003-854032/79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Otterbein LE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               15-APR-2002;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Haem oxygenase PCR primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADF18619;
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                                                                                                                                                                                                                                                                                  718
                                                                                                                                                                                                                                                  18
                                                                                                                                                                                                                                                                                                                    16;
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                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    <u>ب</u>
                                                                                                                                                                                                                                                                         AAGGCGTCTCCATGAGGT
                                                                                                                                                                                                                                                                                                                                                                                         21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          X13356.
                                                                                                                                                                                                                                                    AAAGCGTCTCCACGAGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CTCCATGAGGTATTTCAC 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                       was showed to increase HO-1 gene expression.
                                                                                                                                                                                                                                                                                                                                                                                         BP; 5
                                                                                                                                                                                                                                                                                                                    0.3%;
larity 88.9%;
Conservative
                                                     sina DNA-RNA hybrid -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PITTSBURGH
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                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Choi AMK,
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                                                                                                                                                                                                                                                                                                                                                                                         6 C; 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  26; 74pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      carbon monoxide.
                                                                                                                                                            21
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                                                                                                                                                                                                                                                                                  735
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                                                                                                                                                                                                                                                                                                                                                                                         G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                               Score 14.8; DB 1;
Pred. No. 1.1e+03;
0; Mismatches (
                                                     SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Bauer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    colon, stomach administration
                                                       507.
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ss.
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                                                                                                                                                                                                                                                                                                                    2;
                                                                                                                                                                                                                                                                                                                                                     Length
                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  and small intestine)
of pharmaceutical
                                                                                                                                                                                                                                                                                                                                                       21;
                                                                                                                                                                                                                                                                                                                    0
                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                    0
     EXEXEXEX
EXECUTE
                                                                                                                                                          RESULT 1617
ADG29949
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                                                                                                                                                                                                                                                               Ş
                                                                                                                                                                                                                                                                                                                                                                       double-stranded short interfering nucleic acid;
                                                                       26-FEB-2004
                                   FOS-targeted siNA DNA-RNA hybrid -
                                                                                                                                            ADG29949
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standard;

RNA;

21

0

(first entry)

SEQ ID 515.

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Query Match
Best Local S
                                                                                                     Matches
                                                                                                                                                                                                                                                                                                 nootropic, antiparkinsonian and anticonvulsant activities and may be useful for down-regulating the expression of an endogenous mammalian target gene and therefore in the treatment of any disease or condition that responds to modulation of gene expression or activity in a cell, tissue or organism. The disease or condition may include pulmonary diseases such as restenois!, alteroscierosis, Alzheimer's disease, parkinson's disease, epilepsy, dementia, huntington's disease or amyotrophic lateral sclerosis. Furthermore, the sink may be utilised amyotrophic lateral sclerosis. Furthermore, the sink may be utilised anyotrophic lateral sclerosis. Furthermore, the sink may be utilised as the theory and the sink may be utilised.
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11-MAR-2002;
06-JUN-2002;
29-AUG-2002;
                                                                                                                                                                                                                                                      Parkinson's disease, epilepsy, dementia, huntington's disease or amyotrophic lateral sclerosis. Furthermore, the siNA may be utilised for gene therapy applications. The current sequence is that of the siNA DNA-RNA hybrid of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (SINA) molecule that down-regulates expression of an endogenous mamma target gene comprising one or more chemical modifications and each at of the double-stranded siNA comprises about 21 nucleotides. The siNA the invention demonstrates antiarteriosclerotic, neuroprotective,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mcswiggen
Jamison S,
                                                                                                                                                                                                        Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New double-stranded short interfering nucleic acid molecule, useful for down-regulating the expression of an endogenous mammalian target gene of treating diseases that respond to modulation of gene expression or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       05-SEP-2002;
09-SEP-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20-FEB-2003; 2003WO-US005028
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Unidentified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                anticonvulsant; pulmonary disease; restenosis; atherosclerosis;
Alzheimer's; Parkinson's; epilepsy; dementia; huntington's;
amyotrophic lateral sclerosis; gene therapy; ss; DNA-RNA hybrid;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (SIRN-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               15-JAN-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             invention relates to a double-stranded short interfering nucleic acid
                                                4777 CCTGGCTTCTCAGTTCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2003-731676/69.
                                                                                                     10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SIRNA THERAPEUTICS INC.
                                                                                                                             Similarity
CUUGGCUUCUCAGUUGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      J,
                                                                                                                                                                                                      BP;
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Usman N, Th
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQ ID NO 507; 593pp; English
                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2002US-0406784P.
2002US-0408378P.
2002US-0409293P.
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2002US-0386782P.
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                                                                                                                                                                                                        2 A; 4 C; 5
                                                                                                                           0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Thompson
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21
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                                                                                                                                                                                                        G; 2 T;
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                                                                                                                           Score 14.8;
Pred. No. 1.
                                                                                                     Mismatches
                                                                                                                                                                                                      8 U;
                                                                                                                        .1e+03
                                                                                                                                                                                                      0 Other;
                                                                                                                                                        DB
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ψ,
                                                                                                                                                   Length
                                                                                                   Indels
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                                                                                                   Gaps
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20-FEB-2002; 2002US-0358580P.
11-MAR-2002; 2002US-036174P.
06-JUN-2002; 2002US-0386782P.
29-AUG-2002; 2002US-0406784P.
05-SEP-2002; 2002US-0408378P.
09-SEP-2002; 2002US-04089293P.
15-JAN-2003; 2003US-0440129P.
                 downregulate expression of the human c-fos gene by RNA interference. The siNAs may or may not comprise ribonucleotides and may be double or single stranded. They further comprise sense and antisense regions, or alternatively are assembled from a sense oligonucleotide and an antisense oligonucleotide. Specifically, the siNAs include short interfering RNA (siRNA). The siNAs can be unmodified or chemically modified, can contain (shRNA). The siNAs can be unmodified or chemically modified, can contain deoxyribonucleotides, and can be chemically synthesised, expressed from a vector or enzymatically synthesised. The invention also relates to kits for the in vitro or in vivo delivery of siNA; conjugates and/or complexes of siNA; and vectors that express siNA. The siNAs are used to modulate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          pharmacogenomics; gene function analysis; gene mapping; central nervous system disorder; Alzheimer's disease; entral nervous system disorder; Alzheimer's disease; parkinson's disease; Huntington's disease; epilepsy; dementia; Parkinson's disease; huntington's disease; epilepsy; dementia; amyotrophic lateral sclerosis; cancer; proliferative disease; restenosis; polycystic kidney disease; inflammatory disease; allergic disease; viral infection; HIV infection; autoimmune disease; transplant rejection; vasotropic; nootropic; antiparkinsonian; neuroprotective; cytostatic; antiinflammatory; antiallergic; virucide; anti-HIV; immunosuppressive; anticonvulgant; nephrotropic; human; c-fos; DNA-RNA hybrid;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New short interfering nucleic acid downregulates expression of the c-fos
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mcswiggen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO2003070914-A2
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   expression of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 3; SEQ ID NO 249; 145pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 phosphorothioate; ss.
                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to short interfering nucleic acids (81NA) which
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (SIRN-) SIRNA THERAPEUTICS INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2003WO-US005162
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/note= "2'-deoxy-2'-fluoro bases"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /note= "Ribothymidine.
is phosphorothioate"
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/mod_base= OTHER
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/mod_ba
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c-fos gene
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in cells, tissue explants or organisms
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Also, the internucleotide linkage
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Query Match Best Local S Matches 16

16; Conserv

Conservative

0;

Mismatches

88.9%;

Pred. No.

1.1e+03;

Score 14.8; DB 1;

Length 21; Indels

0,

Gaps

0

725

CTCCATGAGGTTCTTCAC 742

Sequence 21 BP; 5 A;

7 C; 3 0.3%;

G; 6 T;

0 U; 0 Other;

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RESULT 1614
ADE13520
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Best Local S
Matches 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (e.g., by ex vivo gene therapy), or in grafts and transplants for the treatment of a variety of conditions. They may be used for treating central nervous system lesions and injuries (e.g., Alzheimer's disease Parkinson's disease, antingtor's disease, epilepsy, dementia or amyotrophic lateral sclerosis); various cancers; other proliferative diseases (e.g., restenosis and polycystic kidney disease); inflammator and/or allergic diseases; viral infections (including HIV infection); autoimmune diseases; and transplant rejection. The siNas are also usef for drug screening, diagnosis, therapeutic target identification and validation, genetic engineering, pharmacogenomics, studying gene function, and gene mapping (e.g., of single nucleotide polymorphisms). The present sequence represents a chemically modified siRNA targeted the thuman c-fos mRNA transcript.
                                                                                                                                                                                                                        Chow
                                        The invention relates to a method of identifying a class I or II Human Leukocyte Antigen (HLA) genotype of a subject using hybridisation and amplification assay. The method is used for determining the HLA genotyr of a subject. The present sequence represents a HLA class I allele
                                                                                                                                                                                           WPI; 2003-874916/81.
                                                                                                                                                                                                                                                                                                                                                                                      US2003165884-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             HLA class I allele specific primer #136
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADE13520;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                  Claim 7;
                                                                                                                                              Identifying class I or II Human Leukocyte Antigen genotypes using
hybridization and amplification assays.
                                                                                                                                                                                                                                                                                 20-DEC-1999; 99US-0172768P
20-DEC-2000; 2000US-00747391
                                                                                                                                                                                                                                                                                                                             25-APR-2002; 2002US-00133779
                                                                                                                                                                                                                                                                                                                                                          04-SEP-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                               ss; primer; PCR; human; Human Leukocyte Antigen; HLA; genotype
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          29-JAN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADE13520 standard; DNA;
                                                                                                                                                                                                                                                    (STEM-) STEMCYTE INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local Similarity
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                                                                                                                  SEQ ID NO 138;
                                                                                                                                                                                                                        Tonai R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CCTGGCTTCTCAGTTCTT
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                                                                                                                  66pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ВP
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6; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 21;
                                           ne HLA genotype
I allele
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 inflammatory
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4777

CCTGGCTTCTCAGTTCTT

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RESULT 1612
ADE65802
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            short interfering RNA; siRNA; double-stranded RNA; micro-RNA; short hairpin RNA; shRNA; expression modulation; gene therapy; drug screening; diagnosis; therapeutic target identification;
             28-AUG-2003.
                                                                                                                                                                                         modified_base
                                                                                                                                                                                                                                                                                                                                                                             modified_base
                                  WO2003070914-A2
                                                                                                     modified_base
                                                                                                                                               modified_base
                                                                                                                                                                                                                                       modified_base
                                                                                                                                                                                                                                                                                      modified_base
                                                                                                                                                                                                                                                                                                                                   modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                            modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 phosphorothioate; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human c-fos
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               29-JAN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADE65802 standard; RNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CUUGGCUUCUCAGUUGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       chemically modified siRNA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                     /note=
20. .21
                                                                                                                                                                                                      /note=
                                                                                                                                                                                                                                                                                                                                                                                                                                         Location/Qualifiers
                                                                                                                             mod.
                                                                                                                                                                                                                             /*tag=
                                                                                                                                                                                                                                                   /note=
                                                                                                                                                                                                                                                                                                                                                          /*tag=
/mod_b
                                                                                                                                                                                                                                            15. .16
                                                                                                                                      *tag=
                                                                                                                                                             note=
                                                                                                                                                                                                                                                                   ,
mod
                                                                                                                                                                                                                                                                           *tag= d
                                                                                                                                                                                                                                                                                                  note=
                                                                                                                                                                                                                                                                                                              od
mod
                                                                                                                                                                                                                                                                                                                          *tag=
                                                                                                                                                                                                                                                                                                                                                                                           note=
                                                                                                                                                                                                                                                                                                                                               note= "2'-deoxy-2'-fluoro bases"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               short interfering nucleic acid; siNA;
                                                      ote= "Ribothymidine.
phosphorothicate"
                                                                                                                _base= OTHER
e= "Deoxy base"
                                                                                                                                                           _base= OTHER
e= "2'-deoxy-2'-fluoro bases"
                                                                              _base= OTHER
                                                                                                                                                                                                                     base= OTHER
                                                                                                                                                                                                                                                    base= OTHER
e= "2'-deoxy-2'-fluoro bases"
                                                                                                                                                                                                                                                                                                  _base= OTHER
e= "Deoxy bases"
                                                                                                                                                                                                                                                                                                                                                          base=
                                                                                                                                                                                                                                                                                                                                                                                                       base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                          "Deoxy bases"
                                                                                                                                                                                                        "Deoxy bases"
                                                                                                                                      ω
                                                                                                                                                                                                                               ø
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           21
                                                                                                                                                                                                                                                                                                                                                          OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21
                                                                  Also,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQ ID NO:257.
                                                                    the internucleotide linkage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       micro-RNA; miRNA;
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ADE65794
ID ADE
XX ADE
XX ADE
XX 29XX 29XX Hum
XX RNA
KW Sho

29-JAN-2004

(first

entry)

ADE65794;

ADE65794 standard; RNA;

21 ВP

short interfering RNA; siRNA; double-stranded RNA; micro-RNA; short hairpin RNA; shRNA; expression modulation; gene therapy; RNA interference; short interfering nucleic acid; siNA; short interfering RNA; siRNA; double-stranded RNA; micro-RNA; miRNA; Human c-fos chemically modified siRNA, SEQ ID NO:249.

RESULT 1613

밁 ঠ

4

CUUGGCUUCUCAGUUGTT

21

4777 CCTGGCTTCTCAGTTCTT 4794

Matches

10;

Conservative

6

Mismatches

Indels

0

Gaps

0,

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The invention relates to short interfering nucleic acids (siNA) which CC downregulate expression of the human c-fos gene by RNA interference. The cc siNAs may or may not comprise ribonucleotides and may be double or single stranded. They further comprise sense and antisense regions, or classes alternatively are assembled from a sense oligonucleotide and an antisense coligonucleotide. Specifically, the siNAs include short interfering RNA (siRNA), double-stranded RNA, micro-RNA (miRNA) and short hairpin RNA (cc (siRNA)). The siNAs can be unmodified or chemically modified, can contain content of control or enzymatically synthesised. The invention also relates to kits for the in vitro or in vivo delivery of siNA; conjugates and/or complexes of siNA; and vectors that express siNA. The siNAs are used to modulate expression of the c-fos gene in cells, tissue explants or organisms (e.g., by ex vivo gene therapy), or in grafts and transplants for the treatment of a variety of conditions. They may be used for treating central nervous system lesions and injuries (e.g., Alzheimer's disease, Parkinson's disease, Huntington's disease, other proliferative cdiseases (e.g., restenosis and polycystic kidney disease); inflammatory autoimmune diseases; viral infections (including HIV infection); autoimmune diseases; viral infections (including HIV infection) and control, and gene mapping (e.g., of single nucleotide polymorphisms). The present sequence represents a chemically modified siRNA targeted to the human c-fos mRNA transcript.
Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20-FEB-2002; 2002US-0358580P.
11-MAR-2002; 2002US-0363124P.
06-JUN-2002; 2002US-0365782P.
29-AUG-2002; 2002US-0406784P.
05-SEP-2002; 2002US-0408378P.
09-SEP-2002; 2002US-0408378P.
15-JAN-2003; 2003US-0440129P.
                                                               Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New short interfering nucleic acid downregulates expression of the gene useful for treatment and diagnosis of diseases, e.g. cancer ar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 3; SEQ ID NO 257; 145pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mcswiggen J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20-FEB-2003; 2003WO-US005162
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (SIRN-) SIRNA THERAPEUTICS INC
  Similarity
                                                               BP; 2 A; 4 C; 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Beigelman L;
55.6%;
                                                               G; 2 T; 8 U; 0 Other;
  Score 14.8;
Pred. No. 1
.1e+03;
                     DB 1; Length 21;
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he c-tos

17-JAN-2003; 2003WO-US001981.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention describes a predictor set comprising a plurality of CC polynucleotides or polypeptides whose expression pattern is predictive of the response of cells to treatment with a compound that modulates protein CC tyrosine kinase activity or members of the protein tyrosine kinase activity of cells, comprising obtaining a sample of cells, CC modulating the activity of cells express a plurality of markers, and CC modulate the activity of the cells; (2) a plurality of cells associated with a disease state; and (3) identifying polynucleotides and polypeptides whose expression levels CC with a disease state; and (3) identifying polynucleotides and compound sensitivity or resistance of cells associated with a disease state, compound sensitivity or resistance of cells collynucleotides or polypeptides the expression pattern of cell lines to one or more compounds, analysing the expression pattern of cell lines to one or more compounds, analysing the expression pattern of cresistance of cells associated with a disease state polypeptides, and selecting polynucleotides or polypeptides that predict the sensitivity or resistance of cells associated with a disease state by using the expression pattern of cresistance of cells associated with a disease state by using the captern of polynucleotides or polypeptides that predict the sensitivity or resistance of cells associated with a disease state by using the captern of the microarray. The polynucleotides and gene therapy. The polynucleotides and polypeptides are useful in predicting the captern of the microarray. The polynucleotides and gene therapy. The polynucleotides and or polypeptides are useful in predicting the captern threact with protein tyrosine kinases and/or captern by a polypeptide are useful in predicting the captern to allow the development of individualized concer) based on patient response at a molecular level. The present type of the captern in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local S
Matches 16
  pharmacogenomics; gene function analysis; gene mapping; central nervous system disorder; Alzheimer's disease; Parkinson's disease; entington's disease; epileps; demyotrophic lateral sclerosis; cancer; proliferative di
                                                                                RNA interference; short interfering nucleic acid; sinA; short interfering RNA; sirNA; double-stranded RNA; micro-RNA; miRNA; short hairpin RNA; shRNA; expression modulation; gene therapy, drug screening; diagnosis; therapeutic target identification;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New polynucleotides and polypeptides compounds that interact with protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 2; SEQ ID NO 672; 139pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            tyrosine kinase pathways.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               18-JAN-2002; 2002US-0350061P
                                                                                                                                                                                               Human c-fos
                                                                                                                                                                                                                                       29-JAN-2004
                                                                                                                                                                                                                                                                                                                           ADE65786 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (BRIM ) BRISTOL-MYERS SQUIBB
                                                                                                                                                                                                                                                                                                                                                                                                                                                        4187 AAGGCTTTGTGTTTTCAG 4204
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2003-636735/60
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                                                                                                                                                                                                                                                                                                                                                                                                                                 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Fairchild
                                                                                                                                                                                          chemically modified siRNA, SEQ ID NO:241.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BP; 7 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5 C; 4 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                           21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Lee FY,
                                                                                                                                                                                                                                                                                                                           ВÞ
                                                                                                                                                                                                                                                                                                                                                                                                                                 N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 14.8;
Pred. No. 1.
n's disease; epilepsy; dementia; cancer; proliferative disease; restenosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Shaw P;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                for predicting the activity of tyrosine kinases and/or protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8; L-
1.1e+03;
2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1; Length 21;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
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CC alternatively are assembled from a gense oligonucleotide and an antisense oligonucleotide. Specifically, the siMAs include short interfering RNA (giRNA), double-stranded RNA, micro-RNA (miRNA) and short hairpin RNA (c) (siRNA). The siMAs can be unmodified or chemically modified, can contain deoxyribonucleotides, and can be chemically synthesised, expressed from a vector or enzymatically synthesised. The invention also relates to kits correctly of siMA; conjugates and/or complexes correctly in the siNAs are used to modulate correctly by exvivo gene therapy), or in grafts and transplants for the treating central nervous system lesions and injuries (e.g., Alzheimer's disease, Correctly of adjease, Huntington's disease, other proliferative correctly of alteral sclerosis); various cancers; other proliferative correctly servening, diseases; viral infections (including HIV infection); cand/or allergic diseases; viral infections (including HIV infection); correctly screening, diagnosis, therapeutic target identification and correctly genetic engineering, pharmacogenomics, studying gene correctly pharmacogenomics, studying gene correctly because of correctly screening a chemically modified sirNA targeted to the breasent sequence represents a chemically modified sirNA targeted to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               polycystic kidney disease; inflammatory disease; allergic disease; viral infection; HIV infection; autoimmune disease; transplant rejection; vasotropic; nootropic; antiparkinsonian; neuroprotective; cytostatic; antiinflammatory; antiallergic; virucide; anti-HIV; immunosuppressive; anticonvulsant; nephrotropic; human; c-fos; DNA-RNA hybrid; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            siNAs may or may not comprise the sense and antisense regions, stranded. They further comprise sense and antisense regions,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to short interfering nucleic acids (siNA) which downregulate expression of the human c-fos gene by RNA interference.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New short interfering nucleic acid downregulates expression of the gene useful for treatment and diagnosis of diseases, e.g. cancer a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mcswiggen J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          05-SEP-2002;
09-SEP-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     11-MAR-2002;
06-JUN-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        29-AUG-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20-FEB-2003; 2003WO-US005162
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20-FEB-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (SIRN-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 sapiens.
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c-fos
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          or may not comprise ribonucleotides and may
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEO
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2002US-0363124P.
2002US-0386782P.
2002US-0406784P.
2002US-0406793P.
2002US-0409239P.
2003US-0449129P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ID NO 241; 145pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Location/Qualifiers
20. .21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /note= "Ribothymidine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /*tag= a
transcript.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              be double or single
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Query Match
Best Local Similarity
Matches 10; Conserv

Conservative

6

0.3%; 4 C;

Score 14.8; D Pred. No. 1.1e 6; Mismatches

1.1e+03 DB 1;

Length

0

0

Sequence

21

ВÞ;

2 Å;

σ

G; 2 T; 8

U; 0 Other;

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RESULT 1609
ADD14477C
ID ADD1447
XX ADD1447
XX DT 01-JAN-
XX Predic
KW proteil
KW proteil
KW prote t
KW proteil
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                 predictor set; protein tyrosine kinase activity modulator;
protein tyrosine kinase pathway; protein tyrosine kinase; cytostatic;
gene therapy; drug sensitivity; genetic profile; cancer; human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to detecting apoptosis in a cell and involves detecting a decrease in an ELAVL-1 polypeptide. The method is useful for treating a disease e.g., cancer or inflammatory, autoimmune or neurodegenerative disease by administering a modulator of ELAVL-1 gene expression or functional activity to an individual. The present sequence represents a human ELAVL-1 CDS fragment amplifying PCR primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Detecting apoptosis in a cell, useful for treating a disease e.g., or inflammatory, autoimmune or neurodegenerative disease, comprises detecting a decrease in an ELAVL-1 polypeptide or nucleic acid.
                  18-JAN-2002; 2002US-0350061P
                                            17-JAN-2003; 2003WO-US001981
                                                                                                   WO2003062395-A2
                                                                                                                                            Synthetic
                                                                                                                                                                                                                                           Human src biomarker reverse
                                                                                                                                                                                                                                                                     01-JAN-2004 (first entry)
                                                                                                                                                                                                                                                                                                                          ADD14477 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2003-532855/50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       30-NOV-2001; 2001GB-00028754.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO2003048767-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ELAVL-1; apoptosis; Cytostatic; antiinflammatory; immunosuppressive; neuroprotective; gene therapy; antisense therapy; RNA interference;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human ELAVL-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29-NOV-2002; 2002WO-GB005393
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12-JUN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (EIRX-) EIRX THERAPEUTICS LTD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local Similarity
                                                                                                                                                                      primer;
                                                                                                                                                                                                                                                                                                                                                                                                                           4023 AAGCACCGGCCGGAGGAG 4040
                                                                                                                             sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21
                                                                                                                                                                                                                                                                                                                                                                                                 ATGCACCAGCCGGAGGAG
                                                                                                                                                                         88.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BP; 1 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Page 87; 127pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              human; PCR; primer; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   fragment amplifying reverse primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           7 C; 5 G; 8 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Seery L,
                                                                                                                                                                                                                                          PCR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 14.8;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Murphy
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                        primer
                                                                                                                                                                                                                                          SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1.1e+03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 1;
                                                                                                                                                                                                                                           ID NO:666
                                                                                                                                                                                                                                                                                                                                                                                                                                                     2:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
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S

3126 GATGAATCCAGTGGGCCA 3143

Matches Query Match Best Local

16;

Conservative

0,

Mismatches

Pred.

ö.

1.le+03

Similarity

0.3%;

Score 14.8;

DB 1;

Length 21; Indels

0

Gaps

0

片

19

GATGAATCCTGTGTGCCA

N

RESULT 1610

ADD14483/c

ADD14483 standard; DNA; 21

ВP

01-JAN-2004

(first entry)

ADD14483;

Human src biomarker reverse

PCR

primer SEQ ID NO:672

protein tyrosine ki gene therapy; drug

primer;

88

Synthetic Ř

31-JUL-2003 WO2003062395-A2 predictor set; protein tyrosine kinase activity modulator; protein tyrosine kinase;

sensitivity; genetic

profile; cancer; human

cytostatic;

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CC tyrosine kinase activity or members of the protein tyrosine kinase activity of cells, comportsing obtaining a sample of cells, comportsing obtaining a sample of cells, correlating whether the cells express a plurality of markers, and correlating the expression of the markers to the compound's ability to conveil the activity of the cells; (2) a plurality of cell lines for cidentifying polynucleotides and polypeptides whose expression levels correlate with compound sensitivity or resistance of cells associated with a disease state; and (3) identifying polynucleotides and collypeptides whose expression levels complypeptides that predict compounds sensitivity or resistance of cells associated conjuncted with a disease state, comprising subjecting the plurality of cell lines to one or more compounds, analysing the expression pattern of cell lines to one or more compounds, analysing the expression pattern of cell lines to one or more compounds, analysing the expression pattern of cell lines to one or more compounds, analysing the expression pattern of cell lines to one or more compounds, analysing the expression pattern of cell lines to one or more compounds, analysing the expression pattern of cell lines to one or more compounds, analysing the expression pattern of cell lines to one or more compounds, analysing the expression pattern of cell lines to one or more compounds, analysing the expression pattern of cell lines to one or more compounds, analysing the sensitivity or resistance of cells associated with a disease state by using the collypeptides have cytostatic activities, and can be used in gene therapy. The polynucleotides and or pattern of cells activity of compounds that interact with protein tynosine kinases and/or cell polynucleotides and polypeptides are useful in predicting the cells activity of compounds that interact with protein tynosine kinases and/or cells are to be used in treating diseases and disorders (e.g. cancer) based on patient response at a molecular level. The present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention describes a predictor set comprising a plurality polynucleotides or polypeptides whose expression pattern is predictive the response of cells to treatment with a compound that modulates prote
Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               tyrosine kinase pathways.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New polynucleotides and polypeptides for predicting the activity of compounds that interact with protein tyrosine kinases and/or protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2003-636735/60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (BRIM ) BRISTOL-MYERS SQUIBB
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQ ID NO 666; 139pp;
B₽;
5' A; 5 C; 5
G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FΥ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   English
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RESULT 1606
ABK94222
ID ABK9422
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                                                                                                                   The invention describes a polymuclectide (I) of the endothelin (EDNR) (endothelin converting enzyme (ECE)/receptors of EDN and ECE (EDNR) gignaling system which is associated with a cardiovascular disease. (I), the gene encoding EDN, ECE or EDNR (II) or a vector (III) expressing (I) or (II) is useful for producing cells capable of expressing a molecular variant polypeptide which is associated with a cardiovascular disease. (II), (III), the EDN, ECE or EDNR polypeptide, or a cell expressing a molecular variant gene comprising (I) is useful for identifying and obtaining a pro-drug or drug capable of modulating the activity of a molecular variant of a polypeptide of the EDN/EDNR/ECE signaling system or its gene product, or for identifying and obtaining an inhibitor of the activity of a molecular variant of a polypeptide of the EDN/EDNR/ECE signaling system or its gene product. The isolated proteins and polymucleotides encoding them are useful for preparation of a polymucleotides encoding them are useful for preparation of a polymucleotides or fatty acid metabolism e.g. diabetes and familial hypercholesterolaemia. The gene or a polymucleotide fragment of the EDN/EDNR/ECE abnormal anglogenesis or fatty acid metabolism e.g. diabetes and familial hypercholesterolaemia. The gene or a polymucleotide fragment of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
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Best Local Similarity
EDN/ECE/EDNR signaling system are useful as forensic markers, for creating a transgenic animal and in creation of a solid support comprising polynucleotides, genes, vectors, polypeptides, antibodies or host cells of the invention. This sequence represents a PCR primer used to identify single nucleotide polymorphisms in DNA encoding cardiovascular regulator proteins of the EDN/ECE/EDNR signaling pathway
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Novel polynucleotide of the endothelin/endothelin converting enzyme/receptors of endothelin and endothelin converting enzyme signaling system associated with cardiovascular disease, useful for treating the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Brinkmann U,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       hypertension; atherosclerosis; angiogenesis; fatty acid metabolism; diabetes; familial hypercholesterolaemia; forensic marker; transgenic animal; solid support; cardiovascular regulator; SNP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EDNR; signaling system; cardiovascular disease; cord
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             27-AUG-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 6;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     31-AUG-2001; 2001WO-EP010087
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO200224747-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      single nucleotide polymorphism; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Endothelin converting enzyme 1 (ECE-1) SNP detection primer #10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ABK94222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ABK94222 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (EPID-) EPIDAUROS BIOTECHNOLOGIE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2037 GTGAAGACAGGCATTGCAA 2055
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2002-435060/46
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Page 61; 190pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hoffmeyer S;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 14.8; DB 1;
Pred. No. 1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        coronary heart disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 21;
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RESULT 1608
ACC84776/c
ID ACC8477
XX
AC ACC8477
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AC ACC8477
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TO 12-SEP-

ACC84776 standard;

DNA;

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12-SEP-2003 ACC84776;

(first entry)

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ACC84775/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local S
Matches 16
                                                 Query Match
Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                     The invention relates to detecting apoptosis in a cell and involves detecting a decrease in an ELAVL-1 polypeptide. The method is useful for treating a disease e.g., cancer or inflammatory, autoimmune or neurodegenerative disease by administering a modulator of ELAVL-1 gene expression or functional activity to an individual. The present sequence
                                                                                                   Sequence 21
                                                                                                                                                                                                                     Example 16; Page 87;
                                                                                                                                                                                                                                             Detecting apoptosis in a cell, useful for treating a disease e.g., or inflammatory, autoimmune or neurodegenerative disease, comprises detecting a decrease in an ELAVL-1 polypeptide or nucleic acid.
                                                                                                                                                                                                                                                                                                  WPI; 2003-532855/50.
                                                                                                                                                                                                                                                                                                                          Cotter T,
                                                                                                                                                                                                                                                                                                                                                                            30-NOV-2001; 2001GB-00028754.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           neuroprotective; gene therapy; antis ELAV like 1; human; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ELAVL-1; apoptosis; Cytostatic; antiinflammatory; immunosuppressive;
neuroprotective; gene therapy; antisense therapy; RNA interference;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human ELAVL-1 CDS fragment amplifying forward primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        12-SEP-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACC84775 standard; DNA; 21
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                                                                                                                                                                                                                                                                                                                                                                                                                                12-JUN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO2003048767-A2
                                                                                                                            represents
                                                                                                                                                                                                                                                                                                                                                     (EIRX-) EIRX THERAPEUTICS LTD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local Similarity
les 16; Conserv
18 ATGCACCAGCCGGAGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           N
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                         AAGCACCGGCCGGAGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21 BP; 7 A; 4 C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GTGGATACANGCATTGCAA
                                                                                                                               a human
                                                                                                                                                                                                                                                                                                                         Науев І,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.3%;
nilarity 84.2%;
Conservative
                                                   Conservative
                                                                                                     BP; 1 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                               ELAVL-1 CDS
                                                              0.3%;
                                                                                                     7 C; 5 G; 8 T; 0 U; 0 Other;
                                                                                                                                                                                                                    127pp; English.
                                                                                                                                                                                                                                                                                                                          Seery L,
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                                                 Score 14.8; D
Pred. No. 1.1e
0; Mismatches
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Pred. No. 1.
                                                                                                                                                                                                                                                                                                                          Murphy F;
                                                                                                                             fragment amplifying
                                                               1.1e+03
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                                                                             DB 1;
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                                                                           Length
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                                                                                                                            PCR primer
                                                                                                                                         The present sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      21
                                                                                                                                                                                                                                                 comprises acid.
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                                                   Gaps
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AAD39846/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                      The invention relates to methods for producing a polypeptide which comprises, cultivating a fungal host cell in a medium conducive for the production of the polypeptide and isolating the polypeptide from the cultivation medium, wherein the fungal host cell comprises a first nucleic acid sequence encoding the polypeptide in tandem with a second mucleic acid sequence comprising a crippled translational initiator sequence operably linked to a gene encoding a selectable marker, wherein the copy number of the first nucleic acid sequence has been increased by culturing the cell under conditions that select for multiple copies of the selectable marker. The method is used to produce enzymes, hormones, receptors, antibodies and reporters or their fragments and variants. The present sequence is Aspergillus oryzae primer used for sequencing pBANe10 -1-4 variant. This sequence is used to illustrate the method of the
                                                                                                                                                                                                                                                                                                      High-yield production of polypeptides in fungi, useful particularly for preparing enzymes, using construct that includes reporter gene with crippled transcription initiator.
Sequence 21
                                                                                                                                                                                                                                                                             Example
                                                                                                                                                                                                                                                                                                                                                                         WPI; 2002-479179/51.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        has a highly likelihood of having the disorder. The method is useful for diagnosis and follow up of a mental disorder e.g. schizophrenia, manic depression, Tourette's syndrome and a neurodegenerative disorder such as Parkinson's disease, Alzheimer's disease or Huntington's disease in an individual. The present sequence is a PCR primer for amplification of human alpha7 AChR receptor nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       13-JAN-2000; 2000US-00482751
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      16-MAY-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US2002058304-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Enzyme; hormone; receptor; antibody; reporter; primer; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               pBANe10-1-4 variant sequencing Aspergillus oryzae primer, 971228.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAD39846 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     (YAVE/)
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BELLINI D
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATCATGGTGCTGGCGAAG
                                                                                                                                                                                                                                                                        Page 9; 37pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                        Bellini DA;
 BP;
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3 C;
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G; 6 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 14.8;
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CC (EDN)/endothelin converting enzyme (ECE)/receptors of EDN and ECE (EDNR)

CC signaling system which is associated with a cardiovascular disease. (I),

CC the gene encoding EDN, ECE or EDNR (II) or a vector (III) expressing (I)

CC or (II) is useful for producing cells capable of expressing a molecular

CC (II), (III), the EDN, ECE or EDNR polypeptide, or a cell expressing a

CC molecular variant gene comprising (I) is useful for identifying and

CC molecular variant of a polypeptide of modulating the activity of a

CC molecular variant of a polypeptide of the EDN/EDNR/ECE signaling system

CC or its gene product, or for identifying and obtaining an inhibitor of the

CC signaling system or its gene product. The isolated proteins and

CC polymucleotides encoding them are useful for preparation of a

CC coronary heart disease, hypertension, atherosclarosis, or related to

CC abnormal angiogenesis or fatty acid metabolism e.g. diabetes and familial

CC hypercholesterolaemia. The gene or a polymucleotide fragment of the

CC comprising polymucleotides, spense, vectors, polypeptides, antibodies or

CC comprising polymucleotides genee, vectors, polypeptides, antibodies or

CC comprising polymucleotides and in creation of a solid support

CC comprising polymucleotides and in creation of a solid support

CC comprising polymucleotides or fatty acid metabolism e.g. diabetes and familial

CC polymucleotides, spense, vectors, polypeptides, antibodies or

CC comprising polymucleotides or fatty acid metabolism e.g. diabetes and familial

CC polymucleotides encoding spense or a polymucleotide fragment of the

CC comprising polymucleotides or fatty acid metabolism e.g. diabetes and familial

CC polymucleotides encoding spense, vectors, polypeptides, antibodies or

CC comprising polymucleotides or fatty acid metabolism in polypeptides, antibodies or

CC constinct and the invention. This sequence represents a PCR primer used

CC and the collection of the co
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Novel polynucleotide of the endothelin/endothelin converting enzyme/receptors of endothelin and endothelin converting enzyme signaling system associated with cardiovascular disease, useful for treating the disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention describes a polynucleotide (I) of the endothelin (EDN)/endothelin converting enzyme (ECE)/receptors of EDN and ECE (EDNR)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Endothelin; EDN; endothelin converting enzyme; ECE; endothelin receptor; EDNR; signaling system; cardiovascular disease; coronary heart disease; hypertension; atherosclerosis; angiogenesis; fatty acid metabolism; diabetes; familial hypercholesterolaemia; forensic marker; transgenic animal; solid support; cardiovascular regulator; SNP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Brinkmann U,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  19-SEP-2000; 2000EP-00120123
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28-MAR-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Endothelin converting enzyme 1 (ECE-1) SNP detection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ABK94221;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    27-AUG-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                nucleotide polymorphism;
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                                                   regulator proteins of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        61; 190pp; English.
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                                                   EDN/ECE/EDNR
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                                             signaling pathway
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RESULT 1602
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Best Local S
Matches 16
The invention relates to a nucleic acid comprising single nucleotide polymorphisms (SNPs) associated with diseases. The nucleic acids comprising the SNPs and probes and primers for detecting them may be used in assays for the diagnosis of diseases associated with SNPs (such as sickle cell anaemia, agammaglobulinaemia, diabetes insipidus, Lesch-Nyhan syndrome, muscular dystrophy, Wiskott-Aldrich syndrome, Fabry's disease, familial hypercholesterolaemia, polycystic kidney disease, hereditary spherocytosis, Von Willebrand's disease, theorems esterosis, hereditary haemorrhagic telangiectasia, familial colonic polyposis, Ehlers-Danlos syndrome, osteogenesis imperfecta, and acute intermittent porphyria, symptoms of, or susceptibility to, multifactorial diseases of which a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; single nucleotide polymorphism; SNP; sickle cell anaemia; agammaglobulinaemia; diabetes insipidus; Lesch-Nyhan syndrome; muscular dystrophy; Wiskott-Aldrich syndrome; Fabry's disease; familial hypercholesterolaemia; polycystic kidney disease; cancer; hereditary spherocytosis; Von Willebrand's disease; tuberous sclerosis; hereditary haemorrhagic telangiectasia; familial colonic polyposis; belers-Danlos syndrome; osteogenesis imperfecta; autoimmune disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                diseases related to the presence of mutations in nucleic acid sequence which encode the enzyme. The present sequence represents the forward TagMan real-time PCR primer used to analyse tissue specificity and quantitate prostasin-like serine protease mRNA expression
                                                                                                                                                                                                             Claim 1; Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US2002037508-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          acute intermittent porphyria; inflammation; nervous system disorder; infection; rheumatoid arthritis; multiple sclerosis; diabetes; systemic lupus erythematosus; Graves disease; longevity; obesity; baldness; fertility; forensic; paternity testing; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 21
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                                                                                                                                                                                                                                             forensics, paternity
                                                                                                                                                                                                                                                                                                                                                                                                                                      19-JAN-2000; 2000US-0176861P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      18-JAN-2001; 2001US-00765081.
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IRELAND J S.
LANDER E S.
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                                                                                                                                                                                                                                           acid comprising single cs, paternity testing an
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                                                                                                                                                                                                                                                                                                                                 Ireland JS,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2 C; 10 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     diseases and abnormalities or susceptibility to
                                                                                                                                                                                                           English
                                                                                                                                                                                                                                                                                                                                 Lander
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BP
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                                                                                                                                                                                                                                           le nucleotide polymorphisms, and diagnosis of disease.
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No. 1
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RESULT 1603
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     alpha7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   manic depression; Tourette's syndrome; Pari
Alzheimer's disease; Huntington's disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mental disorder; neurodegenerative disorder; schizophrenia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAD27961 standard; DNA; 21 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3567
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ccccreraresercccreae 3586
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Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Parkinson's dise
se; PCR primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      .1e+03
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WO200214547-A2 Homo sapiens.

21-FEB-2002

15-AUG-2001; 2001WO-IL000761. 15-AUG-2000; 2000IL-00137865.

(YEDA) YEDA RES & DEV CO LTD

Fuchs S, Ilani T, Perl O;

WPI; 2002-315412/35.

ratio of D3 do receptor mRNA individual. Diagnosing neurodegenerative disorder in an individual by evaluating ratio of D3 dopamine receptor mRNA and/or alpha7 nicotinic acetylcho receptor mRNA of test individual, to control gene mRNA of healthy acetylcholine

Example 2; Page 8; 33pp; English.

The invention relates to a method of diagnosing a mental disorder or a neurodegenerative disorder that involves measuring mRNA of D3 dopamine receptor and/or alpha7 nicotinic acetylcholine receptor (alpha7 ACRR), and of a control gene in peripheral blood lymphocytes (PBLs) of an individual and of at least one healthy control individual, calculating the ratio between D3 dopamine receptor mRNA and the control gene mRNA and/or the ratio between alpha7 ACRR mRNA and the control gene mRNA for each individual, evaluating the ratios obtained for the tested individual and the healthy control individual. An increase in D3 dopamine receptor mRNA and/or decrease in alpha7 ACRR mRNA in the tested individual in comparison to the control individual indicates that the tested individual individual individual

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RESULT 1600
ABK94853/c
ID . ABK9485
CC for diagnosting the presence of or a predisposition for a disorder containing fatty acid regulated genes in a subject. A composition CC containing (I) or (II) is useful for treating a disorder involving fatty acid regulated genes, where the disorder is selected from a CC acid regulated genes, where the disorder is selected from a CC golyunsaturated fatty acid (PUPA) disorder, eczema, cardiovascular CC disorders (such as hypertriglyceridaemia, dyslipidaemia, atherosclerosis, CC coronary artery disease, cerebrovascular disease or peripheral vascular CC disease), inflammation (such as sinusitis, asthma, pancreatitis, cardiovascular disease), inflammation (such as sinusitis, asthma, pancreatitis, CC (such as obseity, cachexia or anorexia), psychiatric disorders, cancer, CC (such as obseity, cachexia or anorexia), psychiatric disorders, cancer, CC (cystic fibrosis, pre-menstrual syndrome, diabetes, and diabetic CC complications. (I) or (II) is useful as research agent and materials for CC discovery of treatments and diagnostics for a disease, particularly human CC disease. (II) is useful for constructing nucleotide probes and primers, CC expression of (II), and as a diagnostic tool. This sequence represents a CC primer used to isolate DNA encoding fat regulated genes
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PUFA disorder; eczema; cardiovascular disorder; hypertriglyceridaemia; dyslipidaemia; atherosclerosis; coronary artery disease; cerebrovascular disease; peripheral vascular disease; inflammation; sinusitis; asthma; pancreatitis; osteoarthritis; rheumatoid arthritis; acne; body weight disorder; obesity; cachexia; anorexia; psychiatric disorder; cancer; cystic fibrosis; pre-menstrual syndrome; diabetes; diabetic complication; genetic polymorphism; PCR; primer; ss
                                                                                                                                                                                                                                                                                                                                                            The invention describes an isolated polypeptide segment (I) whose are fat regulated. (I) or the polynucleotide encoding it (II) are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2002-508327/54.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Winther MD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           17-NOV-2000; 2000US-0248589P
                                                                                                                                                                                                                                                                                                                                                                                                                        Example 3;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 29-AUG-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                       el isolated polypeptide segment encoded by fat regulated genes, useful diagnosing the presence of or a predisposition for a disorder olving fatty acid regulated genes in a subject.
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                                                                                                                                                                                                                                                                                                                                                                                                                      Page 82; 225pp;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Goldberg
e Antueno
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                                                                                                                                                                                                                                                                                                                                                                                                                      English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Jenkins
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Jenkins DK,
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D; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Haardt M,
Nwaka SO;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
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Query Match

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Score 14.8;

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ABK13568/c
diagnosis of micro-metastases, autoimmune lesions and renal failure in those y specimens, plasma samples and body fluids. The antibody may be used to modulate enzyme activity in a disease, such as metastasis of malignant cells, tumour anglogenesis, inflammation, chronic obstructive compulmonary disease (COPD), atherosclerosis, neurodegenerative disease (COPD), atherosclerosis plaques of Genstmann-Straussler Syndrome, creutzfeldt-Jakob disease, Scrapie) or infection, particularly viral (COPD), atherosclerosis of decreasing human prostasin-like serine protease activity, in particular for treating or preventing metastatic cancer. The agonists and antagonists of the nucleotide sequence may be useful to treat osteoporosis, Paget's disease and degradation of bone implants of particularly dental implants. Altered levels of human prostasin-like serine protease activity inhibits both smooth muscle cell proliferation and inhibit the progression of restenosis and catherosclerosis. The nucleic acid sequence is also useful in diagnostic
                                                                                                                                                                                                                                                                                                                                                                                                    This invention comprises the cDNA and protein sequences of an isolated prostasin-like serine protease and reagents and methods for regulating the human prostasin-like enzyme activity. Prostasin is a trypsin-like serine protease purified from human seminal fluid. An antibody specific for prostasin-like serine protease is useful for immunodetection and for prostasin-like serine protease is useful for immunodetection and seminal failure in the protease is serine protease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Novel human prostasin-like serine protease polypeptide and polynucleotide which can be regulated for treating metastasis of malignant cells, inflammation, atherosclerosis, neurodegenerative disease and infections.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                neurodegenerative disease; prion protein; infection; amyloid plac
Genstmann-Straussler Syndrome; viral infection; Scrapie;
Creutzfeldt-Jakob disease; metastatic cancer; lipid accumulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 10; Page 82; 111pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2002-114576/15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   trypsin-like; metastasis; autoimmune lesion; atherosclerosis; renal failure; malignant cell; tumour angiogenesis; enzyme; inflammation; chronic obstructive pulmonary disease; COPD; restenosis; atherosclerosis;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Xiao Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (FARB ) BAYER
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20-MAR-2001; 2001US-0276909P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          osteoporosis; Paget's disease; PCR; primer; TaqMan; real-time PCR; ss.
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AAS08574/c
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       The sequence represents pBANe10 variant sequencing primer 971228. pBANe10 comprises the TAKA/NA2-tpi leader hybrid promoter, the lipase gene from thumicola lanuginosa, the ANG terminator and the full length Aspergillus nidulans pyrG gene. This construct was used in a method of producing a polypeptide, which involves cultivating a fungal host cell in a medium and isolating the polypeptide from the medium. The host cell comprises a first sequence encoding the polypeptide in tandem with a sequence comprising a crippled translational initiator sequence operably linked to a gene encoding a selectable marker in which the 3' end of the crippled translational initiator sequence operably linked to the gene. The crippled translational initiator codon of the initiator codon of the gene. The crippled translational initiator comprises a T at the 3 position and a T at one or more of the -1, -2 and -4 positions, and the copy number of the first nucleic acid sequence is increased by culturing the host cell under conditions that select for multiple copies of the selected from a hormone or its variant, an enzyme, a receptor or its portion, an antibody or its portion, or a reporter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 21
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                                                                                                                                                                                                                                                                                                                                                                               Producing a polypeptide such as an enzyme, comprises cultivating a fungal host cell containing a sequence encoding the polypeptide in tandem with another sequence comprising a crippled translational initiator sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Synthetic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         pBANe10; TAKA/NA2-tpi leader hybrid promoter; lipase;
Aspergillus nidulans; pyrG gene; crippled translational initiator;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   pBANe10 variant,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAS08574 standard; DNA; 21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Yaver DS,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (NOVO ) NOVOZYMES BIOTECH INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3069 CAGACCTCTCAGGGCAAG
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                                                                                                                                                                                                                                                                                                                                            Page 22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Bellini DA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BP; 1 A; 6 C; 6 G; 8 T; 0 U; 0 Other,
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Pred.
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No. 1
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RESULT 1599
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                                                                                                                                            The invention relates to polymorphic nucleic acid sequences encoding the very low density lipoprotein receptor (VLDLI) and methods of analysing a nucleic acid sample for polymorphisms. This method comprises obtaining a nucleic acid sample from one or more individuals, and determining the nucleotide occupying one or more of the polymorphic sites of one or more nucleic acid molecules. The method is useful for predicting the presence, absence or severity of a particular phenotype or disorder (e.g. absence or
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                                                                                               variant nucleic acid molecules encoding VLDLr or wild-type or variant nucleic acid molecules encoding VLDLr or wild-type or variant gene products can be used in the diagnosis and treatment of cardiovascular diseases and other diseases associated with VLDLr.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Polymorphic nucleic acid sequences encoding the very low density lipoprotein receptor, useful for predicting the presence, absence or severity of a particular phenotype or disorder, e.g. cardiovascular disease such as coronary heart disease.
                                                                            present
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 1; Page 34; 44pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Engert J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     08-MAR-2000; 2000US-0187787P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        08-MAR-2001; 2001WO-US007444
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       paternity testing;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           07-NOV-2001
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                                               present sequence represents nucleotide polymorphism #13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          13-SEP-2001.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Very Low Density Lipoprotein Receptor; VLDLr; cardiovascular disease; single nucleotide polymorphism; SNP; coronary heart disease; forensic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (UYMC-)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      single nucleotide polymorphism #13.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /standard_name= "Single nucleotide polymorphism"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Brewer C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0.3%;
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                                                                       the coding
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Pred. No. 1.1e+03;
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Query Match

Sequence

21 BP;

7 A;

7 C; 2 0.3%;

G; 5 T; 0 U;

0 Other DB 1;

Score 14.8;

Length

21;

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RESULT 1596
AAH91419/c
ID AAH9141
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XX Human;
KW Human;
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Best Local
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26-JUL-2000;
16-AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                in an individual, involving determining the sequence at various polymorphic sites within the human thrombospondin 1 and thrombospondin 4 genes. The sequences at a number of polymorphic sites are also provided in the specification. In particular, the method can be used in the diagnosis of atherosclerosis, myocardial infarction, coronary heart disease, stroke, peripheral vascular diseases, venous thrombosembolism are pulmonary embolism. Single nucleotide polymorphisms (SNPs) are also useful in forensics, paternity testing, genetic analysis and phenotype correlations to diseases. The present sequence is an example of one of
10-DEC-1999; 99US-0170257P.
10-APR-2000; 2000US-0196046P.
                                       11-DEC-2000; 2000WO-US033632
                                                                                                 WO200142511-A2
                                                                                                                                                     misc_feature
                                                                                                                                                                                                                                                                                                          09-OCT-2001
                                                                                                                                                                                                                                                                                                                                                                AAH91419 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention provides a method of diagnosing a vascular disease in an individual, involving determining the sequence at various
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Nucleic acids comprising single nucleotide polymorphisms, useful in applications such as forensics, paternity testing, medicine, genetic analysis and phenotype correlations to diseases such as diabetes and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        16;
                                                                                                                                                                                                                    inflammatory bowel disease; Crohn's disease; ulcerative colitis; nucleotide polymorphism; SNP; chromosome 19p13; paternity test; some 5q31-33; forensic test; gene therapy; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ES,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             CCCTCCTCGAGGTGGGCA 4910
                                                                                                                                                                                                                                                                                                                                                                                                                                   CCCTCCTGGAGCTGGGCA
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2000US-0220947P.
2000US-0225724P.
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                                                                                                                            note=
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                                                                                                                                                                                                                                                                            bowel disease associated polymorphic site #494.
                                                                                                                                                                                                                                                                                                                                                                DNA;
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"SNP,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 14.8;
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                                                                                                                         or A at this position"
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The present invention describes a method for detecting the presence polymorphisms associated with inflammatory bowel diseases such as ulcerative colitis and Crohn's disease. The methods can be used to the presence of genetic polymorphisms associated with inflammatory disease and correlating their occurrence with disease states. They used in this way for phenotypic correlations, forensics, paternity testing, medicine and genetic analysis. The present sequence is a polymorphic site described in the exemplification of the invention
   Sequence 21 BP; 2 A;
                                                                                                                                                                   Claim 1; Page 59; 463pp; English.
                                                                                                                                                                                              Testing for the presence of polymorphisms bowel disease, using a hybridization assay
                                                                                                                                                                                                                                            WPI; 2001-367874/38
                                                                                                                                                                                                                                                                        Daly M,
                                                                                                                                                                                                                                                                                                      (ELLI-)
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                                                                                                                                                                                                                                                                       Hudson TJ,
 2 C; 6 G;
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10 T; 0 U; 1 Other;
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                                                                                                                                                                                                                inflammatory
                                                                                                                                     presence
                                                                          may
                                                                                                        detect
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Ö.

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Best Local Similarity
Matches 16; Conserv Query Match Best Local : 2151 AAGAAACTCAGGCGAAACC 2169 21 **AAGAAACTCANTCAAAACC** Conservative 0.3%; 0 w Pred. Score 14.8; Mismatches No. .1e+03; 멂 1: Length Indels 21; <u>.</u>. Gaps

0

밁 S

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14-JUN-2001
                                                                   Unidentified
                                                                                        SVI; viral replication; viral infection; vaccine;
08-DEC-2000; 2000WO-IB002011
                                             WO200142299-A2
                                                                                                              PCR
                                                                                                                                    22-AUG-2001
                                                                                                                                              06-AUG-2003
                                                                                                                                                                     AAH25543;
                                                                                                                                                                                           AAH25543
                                                                                                              primer
                                                                                                                                                                                           standard;
                                                                                                              used
                                                                                                                                   (revised)
(first entry)
                                                                                                             to assay for SVI
                                                                                                                                                                                           DNA;
                                                                                                                                                                                           21
                                                                                                                                                                                           ВР
                                                                                                             particles.
                                                                                        PCR
                                                                                        primer;
                                                                                        88.
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(HOFF) 10-DEC-1999; ROCHE DIAGNOSTICS 99US-0172696P GMBH GMBH

Liu

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Bohenzky RA,

Lin

۲,

Chen

Novel virus, designated sentinel virus I, associated with cryptogenic, nonA-G hepatitis, and polynucleotides and polypeptides of virus useful for detecting SVI virus and/or SVI virus infection.

Example <u>ب</u> Page 28; 65pp; English.

PCR primers AAH25543-44 were used to assay for sentinel virus I (SVI). The primers and SVI polynucleotides are useful for detecting SVI virus. Probes and primers derived from SVI polynucleotide sequences are useful for identifying and isolating new variants of SVI. SVI polynucleotides are useful for detecting SVI virus, producing SVI polypeptides,

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ARESULT 1594
AAF96841/c
ID AAF9684
XX AAF9684
XC AAF968
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention provides a method of diagnosing a vascular disease in an individual, involving determining the sequence at various polymorphic sites within the human thrombospondin 1 and thrombospondin 4 genes. The sequences at a number of polymorphic sites are also provided in the specification. In particular, the method can be used in the diagnosis of atherosclerosis, myocardial infarction, coronary heart disease, stroke, peripheral vascular disease, renous thrombosembolism and pulmonary embolism. Single nucleotide polymorphisms (SNPs) are also useful in forensics, paternity testing, genetic analysis and phenotype correlations to diseases. The present sequence is an example of one of the human gene SNPS shown in the specification
                                                                                                                                                                                                                       Human; variant thrombospondin 1; variant thrombospondin 4; SNP; polymorphism; vascular disease; coronary artery disease; forensics; myocardial infarction; atherosclerosis; stroke; venous thromboembol
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Nucleic acids comprising single nucleotide polymorphisms, useful in applications such as forensics, paternity testing, medicine, genetic analysis and phenotype correlations to diseases such as diabetes and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Key
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 21 BP; 5 A; 7 C; 7 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                    06-JUN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2001-226749/23.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10-SEP-1999; 99US-0153357P.
26-JUL-2000; 2000US-0220947P.
16-AUG-2000; 2000US-0225724P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   07-SEP-2000; 2000WO-US024503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO200118250-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Variation
                                                                                                                                                                                                                                                                                                                                              Human gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAF96841;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAF96841 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example; Page 152; 242pp; English
                                                           Variation
                                                                                                                                                                                                  pulmonary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (MILL-) MILLENNIUM PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (WHED)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4319 CCAGCTCGCTCTTGGTAC 4336
                                                                                                                                            sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WHITEHEAD INST BIOMEDICAL RES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CCAGCTGGCCCTTGGTAC 1
                                                                                                                                                                                                     embolism;
                                                                                                                                                                                                                                                                                                                                              single nucleotide polymorphism #1602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gargill M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Location/Qualifiers replace(11,T)
                             replace(11,C)
/*tag= a
/standard_name= "single nucleotide polymorphism"
                                                                                   Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       standard_name= "single nucleotide polymorphism"
                                                                                                                                                                                                     paternity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ireland
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 14.8; DB 1
Pred. No. 1.1e+03
                                                                                                                                                                                                        test;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JS,
                                                                                                                                                                                                        ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Bolk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Daley
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 <u>..</u>
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RESULT 1595
AAF96714/c
ID AAF9671
XX AAF9671
XX AAF9671
XX O6-JUN-
XX Human g
XX Human;
KW POLymor
KW POLymor
KW polymorad
KW polymorad
XX Polymorad
XX Homo sa
XX Wariati
FT
FT
XX WO20011
XX WO20011
XX WO20011
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Best Local S
Matches 16
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26-JUL-2000;
16-AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  genes. The sequences at a number of polymorphic sites are also provided in the specification. In particular, the method can be used in the diagnosis of atherosclerosis, myocardial infarction, coronary heart disease, stroke, peripheral vascular diseases, venous thromboembolism and pulmonary embolism. Single nucleotide polymorphisms (SNPs) are also useful in forensics, paternity testing, genetic analysis and phenotype correlations to diseases. The present sequence is an example of one of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Nucleic acids comprising single nucleotide polymorphisms, useful applications such as forensics, paternity testing, medicine, gene analysis and phenotype correlations to diseases such as diabetes
                                                                                                                                                                                polymorphism; vascular disease; coronary artery myocardial infarction; atherosclerosis; stroke;
                                                                                                                                                                                                 Human; variant thrombospondin 1; variant thrombospondin 4; SNP; polymorphism; vascular disease; coronary artery disease; forensics;
                                                                                                                                                                                                                                                                             06-JUN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 21 BP; 3 A; 5 C; 7 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The present invention provides a method of diagnosing a vascular disease in an individual, involving determining the sequence at various polymorphic sites within the human thrombospondin 1 and thrombospondin 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2001-226749/23.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   07-SEP-2000; 2000WO-US024503
                                                                                                                                                                                                                                              Human gene single nucleotide polymorphism #1475.
                                                                                                                                                                                                                                                                                                          AAF96714;
                                                                                                                                                                                                                                                                                                                                        AAF96714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   the human gene SNPS shown in the specification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example; Page 156; 242pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Lander ES,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WO200118250-A2
                                                                                                                                      Homo sapiens.
                                                                                                                                                                 pulmonary embolism; paternity test;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (WHED ) WHITEHEAD INST BIOMEDICAL (MILL-) MILLENNIUM PHARM INC.
                                                                                            Variation
                                                                                                                                                                                                                                                                                                                                                                                                                                               3485 ССССАСТСАССТССССАА 3502
                                                                                                                                                                                                                                                                                                                                                                                                                   19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                        standard;
                                                                                                                                                                                                                                                                                                                                                                                                                   GCCCATTCACCTGGGGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gargill M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2000US-0220947P.
2000US-0225724P.
                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       99US-0153357P.
                                                                          replace(11,T)
/*tag= a
                                                                                                        Location/Qualifiers
                                                            /standard_name= "single nucleotide polymorphism"
                                                                                                                                                                                                                                                                                                                                        DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ireland JS,
                                                                                                                                                                                                                                                                                                                                                                                                                    N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 14.8;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Bolk S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3; L-
1.1e+03;
2;
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                                                                                                                                                                                      venous
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                     thromboembolism;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mccarthy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     and
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15-MAR-2001.

WO200118250-A2

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RESULT 1591
AAF83028/c
ID AAF8302
XX AAF8302
XX AAF8302
XX AAF8302
XX AAF8302
XX AAF8302
XX MBSPX;
KW MBSPX;
KW GYNGCOL
KW Cardian
XX HOMO 88
XX WOZOOL2
XX I3-OCT-
PR 12-JAN-
PR 12-OCT-
XX I3-OCT-
PR 12-OCT-
XX Shimket
XX WPI; 20
XX SCURA-)
XX SCURA-)
XX SCURA-)
XX CCURA-)
RESULT 1592
AAF83029
ID AAF8302
XX
AC AAF8302
XX
AC AAF8302
XX
DT 29-JUN-
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                                                                                                                                                                                                                                 Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                   The invention relates to novel polypeptides, termed MBSPX and polynucleotides encoding the MBSPX polypeptides. The MBSPX polypeptide, nucleic acid and an MBSPX antibody are useful for treating or preventing a pathology associated with the protein especially in humans. The MBSPX nucleic acid can be used to express MBSPX protein (e.g. via a recombinant expression vector in a host cell in gene they applications), an to detect MBSPX mRNA in a biological sample or a genetic lesion in a MBSPX gene. Disorders associated with insufficient or excessive production of MBSPX protein include cancer, preclampsia, immune system disorders and inflammation, neurological disorders, cardiovascular disorders; and skin and muscle abnormalities. The anti-MBSPX antibodies can be used to detect mand isolate MBSPX proteins and modulate MBSPX activity. Sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     13-OCT-1999;
12-JAN-2000;
12-OCT-2000;
                                      AAF83029;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Novel human polynucleotide sequences and the membrane bound or secreted polypeptides encoded by these sequences, designated MBSPX.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MBSPX; cancer; preclampsia; immune system; neurological; cytostatic; gynecological; antiinflammatory; neuroprotective; inotropic; relaxant cardiant; dermatological; gene therapy; human; MBSP6; PCR primer; ss
 29-JUN-2001
                                                                         AAF83029
                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2001-282030/29.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           13-OCT-2000; 2000WO-US028480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               19-APR-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAF83028 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                        AAF83026-033 represent gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human MBSP6 amplifying gene-specific primer 3207791
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            29-JUN-2001
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                                                                                                                                                                                                1293
                                                                                                                                                             21
                                                                                                                                                                                                                               ch 0.3%;
1 Similarity 88.9%;
16; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        7; Page 138; 157pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURAGEN CORP
                                                                       standard; DNA;
                                                                                                                                                                                         GTGTCCAAGCTCAGCCAA 1310
                                                                                                                                                                                                                                                                                                       21
                                                                                                                                                             GTGGCCCAGCTCAGCCAA 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TTCTGTCCAAMTTCGGTGGC 20
                                                                                                                                                                                                                                                                                                       B₽;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     99US-0159231P.
2000US-0175670P.
2000US-00159231.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Lichenstein H,
                                                                                                                                                                                                                                                                                                       N
                                                                                                                                                                                                                                                                                                       A;
                                                                                                                                                                                                                                                                                                       6 C; 9
                                                                       21
                                                                       ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ВP
                                                                                                                                                                                                                                 <u>,</u>
                                                                                                                                                                                                                                                                                                     G; 4 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                        specific
                                                                                                                                                                                                                               Score 14.8; I
Pred. No. 1.1e
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Boldog FL;
                                                                                                                                                                                                                                                                                                                                                        PCR primers
                                                                                                                                                                                                                                                1.1e+03;
                                                                                                                                                                                                                                                                                                       0 Other;
                                                                                                                                                                                                                                                                    DB 1;
                                                                                                                                                                                                                                                                Length 21;
                                                                                                                                                                                                                                                                                                                                                          for
                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                      ty. Sequences amplifying the
                                                                                                                                                                                                                                 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    relaxant;
                                                                                                                                                                                                                                                                                                                                                        the MBSP6
                                                                                                                                                                                                                                 Gaps
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Human MBSP6
amplifying gene-specific primer 3207791
     S4
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MBSPX; cancer; preclampsia; immune system; neurological; cytostatic; gynecological; antiinflammatory; neuroprotective; inotropic; relaxan cardiant; dermatological; gene therapy; human; MBSP6; PCR primer; ss Homo sapiens. relaxant;

WO200127277-A2

19-APR-2001.

13-OCT-2000; 2000WO-US028480

13-OCT-1999; 12-JAN-2000; 12-OCT-2000; 2000US-0175670P 2000US-00159231 99US-0159231P

(CURA-) CURAGEN CORP

Shimkets RA, Lichenstein Ä Boldog

WPI; 2001-282030/29.

Novel human polynucleotide sequences and polypeptides encoded by these sequences, the membrane bound designated MBSPX. o R secreted

Example 7; Page 138; 157pp; English.

polynucleotides encoding the MBSPX polypeptides. The MBSPX polypeptide, nucleic acid and an MBSPX antibody are useful for treating or preventing a pathology associated with the protein especially in humans. The MBSPX nucleic acid can be used to express MBSPX protein (e.g. via a recombinant expression vector in a host cell in gene therapy applications), an to detect MBSPX mRNA in a biological sample or a genetic lesion in a MBSPX gene. Disorders associated with insufficient or excessive production of MBSPX protein include cancer, preclampsia, immune system disorders and inflammation, neurological disorders, cardiovascular disorders; and skin and muscle abnormalities. The anti-MBSPX antibodies can be used to detect and isolate MBSPX proteins and modulate MBSPX activity. Sequences AAP83026-033 represent gene specific PCR primers for amplifying the MBSP6 The invention relates to novel polypeptides, termed MBSPX and

Sequence 21 BP; 4 A; 9 C; σ <u>ი</u> N .. 0 U; 0 Other;

Query Match Best Local S Matches 16 al Similarity
16; Conserv Conservative 0.3%; 0; Pred. No. 1.1); Mismatches Score 14.8; Pred. No. 1 .1e+03; DB 1; Length Indels 0 Gaps

0

1293 GTGTCCAAGCTCAGCCAA 1310 μ GTGGCCCAGCTCAGCCAA 18

RESULT 1593 AAF96782/c

AAF96782 standard; DNA; 21 В₽

AAF96782;

06-JUN-2001 (first entry)

Human gene single nucleotide polymorphism #1543.

Human; variant thrombospondin 1; variant thrombospondin 4; SNP; polymorphism; vascular disease; coronary artery disease; forensics; myocardial infarction; atherosclerosis; stroke; venous thromboembolism; pulmonary embolism; paternity

Homo sapiens

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AAA65408
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 문
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Sim
Matches 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                05-MAY-1989;
24-APR-1992;
27-OCT-1992;
28-OCT-1993;
The present invention describes an intact, deglycosylated lactoferrin protein or a single domain, deglycosylated lactoferrin polypeptide fragment produced by a process comprising culturing a transformed Aspergillus fungal cell containing a recombinant plasmid. The lactoferrin can be used in a variety of products including human or animal foods, as therapeutic additives to enhance iron transport and delivery, and for the virucidal and bacteriocidal qualities, as additives for eye drops, contact lens and other eye care solutions, topical skin care products, ear drops, mouthwashes, chewing gum and toothpaste. The bactericidal lactoferrin polypeptides are useful as preservatives in the above products, and as therapeutic anti-infection agents. Each protein may also
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  the subject in exercise training. The present sequence is an apercumprimer used to detect substitutions in IRS-1. Different IRS-1 genotypes have variations in the improvement of cholesterol levels after extensive
                                                                                                                                                                                                                              Lactoferrin or its fragment, produced by culturing Aspergillus cell transformed with vector comprising endogenous gene whose product is secreted, and endogenous proteolytic enzyme-identified linker seque
                                                                                                                                                                                                                                                                                                                                 O'malley BW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; lactoferrin; hLF; Aspergillus; food; therapeutic additive; iron transport; delivery; virucidal; bacteriocidal; additive; eye contact lens; eye care solution; topical skin care product; eard mouthwash; chewing gum; toothpaste; preservative; anti-infection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 21 BP; 5 A; 6 C; 8
                                                                                                                                                                                                                                                                                                                                                                                                                 27-MAY-1994;
02-NOV-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  27-JUN-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US6080559-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                09-NOV-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAA65408 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                 (AGEN-) AGENNIX INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  29-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                nutrition supplement; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               mouthwash; chewing gum; toothpaste;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               subject with hypercholesteremia or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5000 GCTCTCCAGCCTGGCTGC 5017
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 18 GCTCTCCTGCCAGGCTGC 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               h hypercholesteremia or at risk of developing it and engaging in exercise training. The present sequence is an upsteam to detect substitutions in IRS-1. Different IRS-1 genotypes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                   Headon
                                                                                                                                                                                                                                                                                                                                                                                                                                                89US-00348270.
92US-00873304.
92US-00967947.
93US-00145681.
                                                                                                                                                                                                                                                                                                                                                                                              94US-00250308.
94US-00303009.
96US-00691123.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  98US-00107075.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                mutagenic oligonucleotide SEQ ID
                                                                                                                                                                                               80pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.3%;
                                                                                                                                                                                                                                                                                                                                 DR,
                                                                                                                                                                                                  English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ВÞ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score
Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                14.8; DB 1;
No. 1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NO:8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               it and engaging
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0;
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S

4695 TTCTGTCCAGCTTCAGTGAC 4714

Query Match Best Local S Matches 16

Similarity

0.3%;

Score 14.8; Pred. No. 1.

1.1e+03;

DB 1;

Length

21;

Indels

<u>,</u>

Gaps

0

Mismatches

Conservative

Sequence

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RESULT 1590
AAC73616
ID AAC7361
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         be used as a nutrition supplement and as a source of amino acids metals. The present sequence represents a mutagenic oligonucleoti human lactoferrin, which is used in an example from the present i
                                     The present invention relates to an oligonucleotide array comprising oligonucleotide tags fixed to a solid substrate. The oligonucleotide array is useful for gencyping a nucleic acid sample at one or more loci via single base extension (SBE) reactions. A pair of primers is used to amplify a polymorphic locus in a sample e.g. a single nucleotide polymorphism (SNE). The present sequence is one such polymorphic locus used in the present invention. The amplified nucleic acid product is then used as a template in a SBE reaction with an excension primer. The SBE reaction products are used to form the oligonucleotide array. Note: This sequence includes a SNP represented by the degenerate codon in the
                                                                                                                                                                                                                    Universal array of oligonucleotides tags attached along with locus-specific tagged oligonucleotides using single base extension reactions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Oligonucleotide array; genotyping; polymorphic locus; single nucleotic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAC73616 standard;
                                                                                                                                                                                          Example 7; Page 62; 70pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                 27-MAR-2000; 2000WO-US008069
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO200058516-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SNP flanking sequence #137 used in multiplexing PCR/SBE assay.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              02-FEB-2001
                                                                                                                                                                                                                                                                                                                    Fan J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 29
                                                                                                                                                                                                                                                                                                     Hirschhorn of, Sklar P;
                                                                                                                                                                                                                                                                                                                                               WHITEHEAD INST BIOMEDICAL AFFYMETRIX INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AGCACGGCCGCAGAAGAA 46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21
 21
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BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                      99US-0126473P.
99US-0140359P.
2 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         single nucleotide polymorphism;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.3%;
6 C; 5 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5 C; 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21
                                                                                                                                                                                                                                                                                                                  Huang X,
                                                                                                                                                                                           English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 14.8;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  G; 0 T; 0 U;
 7 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                    Kaplan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        single base extension
0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1.1e+03
                                                                                                                                                                                                                                                                                                                    ۵,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0 Other;
                                                                                                                                                                                                                                                                                                                    Lander ES,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length
                                                                                                                                                                                                                                   to a solid substrate useful in genotyping
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             present invention
                                                                                                                                                                                                                                                                                                                     Lockhart
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0
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RESULT 1587
AAA56811/c
ID AAA5681
XX AAA5681
XX AAA5681
XX DE Upstrea
XX Insuliti
KW Insuliti
KW beta-2
KW PCR pri
XX PCR Pri
XX W020003
XX W020003
XX W020000
XX W020003
XX W02
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAZ65654 to AAZ69578 represent human biallelic markers from the present invention, which contain a polymorphic base at position 24 of their nucleotide sequences. AAZ69579 to AAZ77440 represent amplification primers for the biallelic markers. The biallelic markers of the invention have a variety of uses: they can be used for high density mapping of the human genome, and in complex association studies and haplotyping studies which are useful in determining the genetic basis for disease states. Compositions and methods of the invention can also be useful for the identification of the targets for the development of pharmaceutical agents and diagnostic methods, as well as the characterisation of the differential efficacious responses to and side effects from pharmaceutical agents acting on a disease as well as other treatment.

N.B. The SEQ ID NOS 2822, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and 3367, are not accually given a sequence in the Sequence Listing from the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; peroxisome proliferator activator receptor gamma; PPAR-gamma; insulin receptor substrate-1; IRS-1; beta-2 adrenergic system recept beta-2 ASR; beta-3 ASR; fatty acid binding protein-2; PARD-2- Aintre
                             Shuldiner A,
                                                                               (UYMA-)
(UYMA-)
(UYPI-)
                                                                                                                                                                                         23-NOV-1998;
                                                                                                                                                                                                                                          23-NOV-1999;
                                                                                                                                                                                                                                                                                           02-JUN-2000
                                                                                                                                                                                                                                                                                                                                                 WO200031297-A1
                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             18-OCT-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAA56811;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAA56811 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 21 BP; 9 A; 2 C; 9 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         map
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23-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Upstream primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2000-013267/01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Novel biallelic markers used to construct a high density disequilibrium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Cohen D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (GEST )
                                                                                                                                                                                                                                                                                                                                                                                                                                                      primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1588
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                                                                                 AIND
AIND
AIND
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGGTGGAAACAGAGAAGG 1605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Page 2619; 2745pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGGAGGÁÁGÁGÁGÁÁGÁ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                               MARYLAND BALTIMORE.
MARYLAND BALTIMORE.
PITTSBURGH.
                             Ferrell RE,
                                                                                                                                                                                                                                          99WO-US026019
                                                                                                                                                                                      98US-0109432P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                98US-0082614P.
98US-0109732P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 for detection of Gly972Arg substitution in IRS-1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Σ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Chumakov
                           Hagberg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 14.8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pred. No. 1.16); Mismatches
                             Ž,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1.1e+03;
                             Brown MD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FABP-2; diabetes;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0
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RESULT 1588
ABL54383/c
ID ABL5438
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Best Local
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                                                                                                                                                                Improving cholesterol levels in individuals with hypercholesteremia or diabetes involves identifying genetic markers such as glucose transpor and myostatin gene that positively correlate with cholesterol levels.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            substitution in the insulin receptor substrate-1 (IRS-1) gene. DNA was taken from men with diabetes or at risk of developing diabetes. The subjects underwent 9 months of endurance exercise training and their improvement in diabetes status was quantified. A number of gene loci were analysed and certain genotypes and/or alleles were found to positively correlate with greater success in improving diabetes status in diabetic individuals as compared with other alleles and/or genotypes at the same locus. Individuals with an 11 or 12 genotype for a beta-2 adrenergic receptor gene, a 11 genotype for a beta-3 adrenergic receptor gene, a 11 genotype for a paroxisome proliferator activator receptor gamma gene, a 12 genotype for a fatty acid binding protein-2 gene or a 12 genotype for a nightin receptor substrate-1 gene had decreased insulin and glucose
                                                                                                                                                                                                                                                                                                                                                       WPI; 2000-423448/36.
                                                                                                                                                                                                                                                                                                                                                                                                                                     Hagberg
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17-DEC-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     29-JUL-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 2; Page 10; 19pp;
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Example; Page 7; 16pp;

English.

This invention relates to improving cholesterol levels by identifying a

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Humm
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                Human genome; biallelic marker; high density disequilibrium map; genomic map; haplotype; phenotype; polymorphic base; genotyping; haplotyping; hybridisation; identification; characterisation; haplotyping; hybridisation; dentification; SNP; PCR primer; amplification; single nucleotide polymorphism; SNP; PCR primer;
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                                                                                                    Human biallelic marker downstream amplification primer
                                                                                                                                        10-SEP-2001
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                                                                                                                                                                                                              Sequence 21
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23-NOV-1998;
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RESULT 1586
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21-APR-1999;
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                                                                                        Homo sapiens.
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Matches
                                                                                                                                             of enzymes located in the endoplasmic reticulum primarily in the liver. Cytochrome P450 (CYP) is involved in the major route of phase I drug metabolism. The polymorphism of these enzymes results in the appearance of different phenotypes with differential capacities to metabolise drugs. The method allows for the detection of a mutation in a CYP nucleotide sequence, where the mutation is known to affect the isoform's ability to metabolise a drug. The method is useful for measuring a patient's ability to metabolise a drug, specifically drugs which are metabolised by cytochrome P450 such as omeprazole, pentaprazole, phenytoin, verapamil, propanolol, tolbutamide, S-warfarin, tricyclic antidepressants such as imipramin and anti-malarial prodrugs such as proguanil
                                                                                                                                                                                                                                                                                                                    This sequence represents a PCR primer which used in the sequencing of the DNA encoding cytochrome P450. The PCR product is used in a method for determining the ability of cells to metabolise a drug. The method comprises using a detection primer complementary to a sequence 5' in relation to a point mutation of single-stranded DNA encoding a cytochrome P450 isoform, and detecting the hybridisation. Cytochrome P450 is a group
                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure; Page 21; 28pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Determining the ability of cells to metabolize a drug using a primer complementary to a target sequence immediately adjacent and 5' in relation to a defined point mutation of single-stranded DNA encoding cytochrome P450 isoform.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PCR primer; cytochrome P450; drug metabolism; omeprazole; pentaprazole; phenytoin; verapamil; propanolol; tolbutamide; S-warfarin; imipramin; anti-malarial prodrug; proguanil; tricyclic anti-depressant; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAA09762 standard; DNA; 21 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Hauzenberger
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                              2141
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                      AGGAAGTGAAAAGAAACT
AGGAAGAGAAACGAAACT
                                                         0.3%;
ilarity 88.9%;
Conservative
                                                                                                                       BP; 1
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                                                                                                                       G; 11
                                                         Score 14.8; I Pred. No. 1.16 O; Mismatches
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                                                                          .1e+03
                                                                                          BB
                                                                                                                       0 Other;
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RESULT 1584
AAZ75009
ID AAZ7500
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AC AAZ7500
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AC 10-SEP-

AAZ75009 standard; DNA;

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10-SEP-2001 AAZ75009,

(first entry)

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RESULT 1583
AAZ73762
                                                                        Query Match
Best Local S
Matches 16
                                                                                                                                                                                                      invention, which contain a polymorphic base at position 24 of their nucleotide sequences. AAZ69579 to AAZ77440 represent amplification primers for the biallelic markers. The biallelic markers of the invention have a variety of uses they can be used for high density mapping of the human genome, and in complex association studies and haplotyping studies which are useful in determining the genetic basis for disease states. Compositions and methods of the invention can also be useful for the identification of the targets for the development of pharmaceutical agents and diagnostic methods, as well as the characterisation of the pharmaceutical agents acting on a disease as well as other treatment. N.B. The SEQ ID NOs 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and 3367, are not actually given a sequence in the Sequence Listing from the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human genome; biallelic marker; high density disequillbrium map; genomic map; haplotype; phenotype; polymorphic base; genotyping; haplotyping; hybridisation; identification; characterisation; haplotyping; hybridisation; identification; SNP; PCR primer; amplification; single nucleotide polymorphism; SNP; PCR primer;
                                                                                                                                                      Sequence
                                                                                                                                                                                          present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAZ65654 to AAZ69578 represent human biallelic markers from the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Novel biallelic markers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2000-013267/01.
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23-NOV-1998;
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                              2696 ACAGATTGAGTTTCTCAG
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                                                                        l Similarity
16; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 the human genome
                                                                                                                                                                                            invention
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ACAGATTGAGGTTGTCAG
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                                                                                                                                                      BP;
                                                                           Conservative
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98US-0109732P.
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                                                                                                               Score 14.8;
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                                                                                                             Length
                                                                           Indels
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RESULT 1580
AAX61051
ID AAX6105
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AC AAX6106
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AC AAX6106
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Best Local S
Matches 16
This sequence represents a PCR primer for the KanMx4 gene. The invention relates to a method for the production of ethanol by growing respiration-deficient yeast (A) in which at least one nuclear gene (I), or its product, required for respiration is non-functional and/or inhibited. The method is specifically used to produce fuel alcohol, but may also be used to produce beverages. (A) are less sensitive to the Pasteur effect (reduction in ethanol yield in presence of oxygen) than normal strains but have comparable ethanol tolerance (betters than that of strains with non-functional mitochondrial genes). They thus provide more rapid production of ethanol and higher yields than known respiration-defective
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  This sequence represents a PCR primer for the KanMx4 gene. The invention relates to a method for the production of ethanol by growing respiration-deficient yeast (A) in which at least one nuclear gene (I), or its product, required for respiration is non-functional and/or inhibited. The method is specifically used to produce fuel alcohol, but may also be used to produce beverages. (A) are less sensitive to the Pasteur effect (reduction in ethanol yield in presence of oxygen) than normal strains but have comparable ethanol tolerance (better than that of strains suth non-functional mitochondrial genes). They thus provide more rapid production of ethanol and higher yields than known respiration-defective strains, and they can not metabolise ethanol as a secondary source of carbon, allowing higher final ethanol concentrations to be reached and eliminating the need for a rapid arrest of cell culture. Also maintenance of strictly anaerobic conditions is not necessary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       04-SEP-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Production of ethanol using respiration defective yeast.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           04-SEP-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ethanol production; respiration-deficient yeast; ethanol tolerance; fuel alcohol; beverage production; ethanol metabolism; nuclear gene
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                                                                                                                                                                                                                                                                                                                                                                                                                               Page 22;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hutter A;
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Pred. No. 1
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RESULT 1581
AAX52718
ID AAX5271
AC AAX5271
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XX Bialle;
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                                                                                     This invention describes a novel method for obtaining a set of biallelic markers represented in AAXS2533.X52632 and AAXS2833.X52843 for use in constructing a high density equilibrium map of the human genome. The method involves (a) obtaining a nucleic acid library comprising genomic DNA fragments comprising the full genome or a portion (b) determining the corder of genomic DNA fragments in the genomic DNA fragments and (d) sequence of selected regions of the genomic DNA fragments and (d) identifying nucleotides in the genomic DNA fragments and (d) identifying nucleotides in the genomic DNA fragments and (d) individuals, thereby defining a set of biallelic markers. The methods can be used for identifying traits such as disease (e.g. Alzheimer's disease), drug response, drug efficacy and drug toxicity. They can be used for selecting an individual for inclusion in a clinical trial. The method is used to map the position of genes in a genome (preferably the human genome). The sequences described in AAXS2633.X52832 and AAXS2844-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
Matches 16; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Production of biallelic markers - by obtaining a genomic DNA library determining the order and sequence of DNA fragments and identifying nucleotides which vary between individuals.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               drug toxicity; primer; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human genome biallelic marker primer 86.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           30-JUN-1999
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21-APR-1998;
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                                                                     represent primers used
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98US-0082614P.
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Pred. No. 1.1e
0; Mismatches
                                                                        in the method
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Query Match

Sequence 21

BP; 9 A; 0 C; 9 G;

3 T; 0 U;

0 Other;

Score 14.8;

DB 1;

Length 21;

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EXEXEXEX
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AAX23959/c
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                                                                                                                                                                                                                                                                                                                                                                          CC The recombinant expression plasmid vector comprises a promoter and concerning a signal peptide, an amino-terminal portion of an endogenous secreted Aspergillus polypeptide, an apprided linker which comprises a fungal peptidase cleavage site and a lactoferrin (LF) or LF CC polypeptide fragment operably linked 5' to 3', where the vector permits CC the expression of a LF or its fragment as a fusion protein and the ccluster recombinant production as a processed protein. The vectors can be used for the recombinant production of large amounts of LF in Aspergillus host colls. The human gene can be transferred to mammalian systems such as cows and other agriculturally important animals and expressed in milk. Cf the incorporation of a LF gene and expression in the milk of animals can combat an iron deficiency typical in piglets. The inclusion of a LF gene can be used in piglets. The inclusion of a LF gene combinant LF can be used in a variety of product and would provide a production device for the secreted protein for therapeutic use. The cc fithe expressed gene to young feeding on the milk and would provide a crecembinant LF can be used in a variety of products including human or cc animal foods, as therapeutic additives to enhance iron transport and call toothpaste. The bactericidal LF polypeptides are useful as iron or other metal ion carrier proceins for cutritional and therapeutic uses, and as bacteriostats and bacteriotides. Can be producted in any strain of Aspergillus free from contaminants of LF collated from milk e.g. lactoperoxidase and lysozyme. The present con milk e.g. lactoperoxidase and lysozyme. The present con mutated from milk e.g. lactoperoxidase and hlf start site by in vitro contaminants of LF collated from milk e.g. lactoperoxidase and hlf start site by in vitro contaminants of LF collated from milk e.g. lactoperoxidase and hlf start site by in vitro
                                                                                                                                                                                                                                                                                                                   Query Match
Best Local
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27-OCT-1992;
28-OCT-1993;
27-MAY-1994;
                                Human leukemia WT1 PCR primer 33.
WT1; leukemia; PCR primer; detection; ss.
                                                                     25-JUN-1999
                                                                                                                                        AAX23959 standard;
                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention provides vectors for expressing lactoferrin in Aspergillus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              polypeptides in Aspergillus
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92US-00967947.
93US-00145681.
94US-00250308.
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                                                                                                                                      DNA;
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RESULT 1579
AAX61050/c
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Best Local (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                This invention describes a method of detecting RNA by polymerase chain reaction (PCR) using synthesis of RNA complementary cDNA and the resultant cDNA as a template, in which the synthesis of cDNA and PCR are successively carried out in one reaction vessel in the presence of a competitor of RNA or CDNA. The method results in the a highly sensitive, simple and rapid determination of RNA without fear of error in pipetting or contamination. AAX23927-X23961 are PCR primers used in the method of .
                                                                                                                                                                                                 Ethanol production; respiration-deficient yeast; ethanol tolerance; fuel alcohol; beverage production; ethanol metabolism; nuclear gene PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 21 BP; 5 A;
                                                                                       04-SEP-1997;
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                                                                                                                               11-MAR-1999.
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                                                                                                                                                                     Saccharomyces
                                                                                                                                                                                Synthetic.
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                            WPI; 1999-326526/27.
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16; Conserv
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                                                                   SACHETPACK LTD
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                                                                                                                                                                                                                                                                                                                                                                                                          Score 14.8;
Pred. No. 1
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Production of ethanol using respiration defective yeast

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Best Local S
Matches 16
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           thereby reduce associated gastrointestinal disorders. The synthetic galactosidase is also claimed to be useful in cheese making whereby activated by chymosin when added to milk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAV21601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Synthetic beta-galactosidase inactive in milk but active in vivo - can be chemically activated and used to treat lactose intolerance, also useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 1998-388118/33.
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                                                                                                                                                                                                                                                                                                                                                  Patched protein; ptc; cancer; tumour suppressor; cell adhesion promoter; wound healing; ageing; human; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                            Human patched
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                                                                                        31-MAY-1996;
                                                                                                                                         02-JUN-1997;
                                                                                                                                                                                        04-DEC-1997
                                                                                                                                                                                                                                    WO9745541-A2
                                                                                                                                                                                                                                                                                                         Synthetic.
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                      (STRD ) UNIV
                                                                                                                                                                                                                                                                                Homo sapiens.
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                      LELAND STANFORD JUNIOR. CALIFORNIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                         (ptc) gene amplifying primer 8F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Turner JD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             96US-00775842
                                                                                        96US-00656055
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 14.8; DB 1;
Pred. No. 1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Kabel JJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 1; Length 21;
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making whereby it is
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CC protein other than a Drosophila melanogaster patched protein, or fragment CC of at least 12 nucleotides in length, as other than an intact chromosome CC under transcriptional termination region, both functional in an expression CC assette as an extrachromosomal element or integrated into the genome of the cell can be predisposed to develop basal cell carcinoma as a result CC protein, a genetic predisposed to develop basal cell carcinoma as a result CC protein, a genetic predisposed to developmental abnormalities and CC cancer can be diagnosed. This analysis can also be used for CC characterising the phenotype of a tumour, particularly a carcinoma, cc especially a basal cell carcinoma. The methods can also be used for CC characterising transitional cell carcinoma of the bladder, meningiomas CC characterising transitional cell carcinoma of the bladder, meningiomas CC characterising transitional cell carcinoma of the bladder, meningiomas CC cassette can be used to determine the role of different exons of the patched gene in oncogenesis, signal transduction, etc. Transgenic animal cc carcinomas of the skin. The patched protein of human or mouse can be used to identify ligands or substrates that bind to, modulate, or commic the action of patched gene. These agents could be used as tumour and acetion.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           gene. This is used for determining the intronic boundaries of the various exons of human ptc. The invention provides a method for the construction of an expression caracter.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; Page 42; 86pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Scott MP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 of an expression cassette comprising a nucleic acid encoding a patched
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                for characterising the phenotype of a
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Best Loc Matches Local Similarity 4453 GAACACTCATGATGTGCC 4470 16; GAATACTGATGATGTGCC Conservative 88.9%; 0.3%; 21 0 Pred. No. 1.16); Mismatches Score 14.8; 1.1e+03; DB 1; ٧ • Length 21; Indels 0 Gaps 0

Sequence 21 BP; 5 A; 3 C; 7 G; 6 T; 0 U; 0 Other;

cell adhesion promoters (e.g.

ij

wound healing and

ageing)

RESULT 1577 AAZ07498 ID AAZ0749 밁 Ś Lactoferrin; human; hLF; Aspergillus; iron deficiency; viral infection; bacterial resistance; therapeutic; animal food; additive; eardrop; eye care solution; skin care product; toothpaste; bactericidal; nutrition supplement; mutagenic; PCR primer; ss. AAZ07498; Human lactoferrin (hLF) mutagenic primer HLF NotI. 26-NOV-1999 AAZ07498 standard; US5955316-A Synthetic. domo sapiens. (first entry) DNA; 21

05-MAY-1989; 01-AUG-1996;

89US-00348270 96US-00691123.

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AAT51590/c
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Matches 16; Conserv
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Best Local
                                                                                                                                                                                                                 for polynucleotides encoding DNA polymerases from Kaposi's sarcoma herper virus (KSHV). The oligonucleotide may be used for detecting viral DNA or RNA in a sample of primate origin, especially in the diagnosis of herpes viral infection. Herpes virus DNA polymerases of this invention, may be used in vaccines for the protection against infection by a herpes virus of the RFHV/KSHV family. They may also be used in the design and screening of anti-viral drugs. Antibodies raised against the polymerase or fragments of it, may be used in the detection of herpes virus
                                                                                                                                                                                                                                                                                                                                                             Herpes
in the
                      ADG77284 standard; DNA;
                                                                                                                                                                          Sequence
                                                                                                                                                                                                          infection and
                                                                                                                                                                                                                                                                                                               The present
                                                                                                                                                                                                                                                                                                                                     Claim 26; Page 93; 132pp; English
                                                                                                                                                                                                                                                                                                                                                                                               WPI; 1997-132644/12.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 14-JUL-1995;
11-JUL-1996;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Retroperitoneal fibromatosis herpes virus; detection; infection; Kaposi's sarcoma herpes virus; viral DNA; viral RNA; vaccine; an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 06-NOV-1997
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                                                                                                                                                                                                                                                                                                                                                          virus DNA polymerase and corresponding nucleotide sequence - used detection and treatment of herpes virus infection.
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16; Conserv
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                                                                                                                                                                          BP; 7 A;
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96US-00680326.
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                                                                                                                                       88.9%;
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                                                                                                                                                                         4 C; 7 G; 3 T; 0 U; 0 Other;
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Pred. No. 1.1e
0; Mismatches
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Pred. No. 1.1e+03;
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1.1e+03;
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                                                                                                                                                   DB 1;
                                                                                                                                                                                                          therapy of herpes virus
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Best Local 9
                                                  Aspergillus in cheese making
                                                                                                                                                                                                                                                                                                                                                                                                  This invention relates to novel oligonucleotide PCR primers which may used to identify markers associated with genetic diseases and traits i dogs, in particular to disgnose genetic diseases that are not phenotypically visible and to identify carriers of recessive diseases. specific application is diagnosis of copper toxicosis (CT). The invent can also be used to create a genetic map of the canine genome; to generate breed-specific profiles; to establish paternity and to identi dogs from DNA fingerprints. The method provides rapid analysis of the target sequences from only a small sample of DNA. Diagnosis can be don at any time in the dog's life. The present sequence is that of a PCR primer of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          genetic disease; genetic trait; dog; carrier of recessive disease; copper toxicosis; CT; canine genome map; breed-specific profile; DNA fingerprint; dog identification; PCR; primer; 88.
                                                     PCR; primer; amplification; pepsin; gastrointestinal tract; Aspergillus niger beta-galactosidase gene; lactase intolerar cheese making; chymosin; bovine lactoferrin cDNA; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New oligonucleotide primers for diagnosis of genetic diseases and traits in dogs - amplify specific regions of the genome containing microsatellite repeats, especially for diagnosing copper toxicosis and
                                                                                                           Aspergillus niger beta-galactosidase genomic
                                                                                                                                                                   AAV32916;
                                                                                                                                                                                               AAV32916 standard;
                                                                                                                                                                                                                                                                                                                                                                             Sequence 21 BP;
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                                                                                                                                        26-OCT-1998
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                                                                                                                                                                                                                                                                                                                      l Similarity
16; Conserv
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88.9%;
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Best Local S
Matches 16
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The probe is one of a set of nine probes having a sequence complementary to the upstream and downstream conserved region of a region encoding four Chlamydia variable surface proteins. The probes are used as primers to amplify Chlamydia DNA contg. a serotype specific base sequence, by PCR, and then used to identify positive PCR prods. The method allows accurate diagnosis of microorganisms of the Chlamydia genus. See also AAQ33000-7. (Updated on 10-MAR-2003 to add missing OS field.)
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                                                                                                                                                                                                                                                                                 Chlamydia sp. Synthetic.
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07-MAY-1993
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 1992-024428/03.
                                                                                                                                                                                                                                                                                                                                                    Probe for Chlamydia microbes.
                                                                                                                                                                                                                                                                                                                                                                                                           AAQ32999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (INMR)
                                                                                          Claim
                                                                                                                                                                      (MITP ) MITSUBISHI YUKA
                                                                                                                                                                                          10-MAY-1991;
                                                                                                                                                                                                                 10-MAY-1991;
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                                                                                                                                                                                                                                                            JP04335900-A
                                                                                                                                                                                                                                                                                                                              Detection; identification; serotype specific;
                                                                                                                                                                                                                                                                                                                                                                                                                                 AAQ32999 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  for diagnosing
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                                                                                        Page
                                                                                                              and identification of serotype specific base
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RESULT 1572
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                                     The present sequence represents a sequence tagged site (STS) primer used con the isolation of cosmids from the DPC4 (deleted in pancreatic cancer, colors 4) region, and gene identification. DPC4 is a tumour suppressor contragenic mutations in the nucleic acid encoding it, is used to diagnose contragenic mutations in the nucleic acid encoding it, is used to diagnose contragenic mutations in the nucleic acid encoding it, is used to diagnose contragenic mutations in the nucleic acid encoding it, is used to diagnose contragenic mutations in the nucleic acid encoding it, is used to diagnose contragenic mutations in the nucleic acid encoding it, is used to diagnose continuous problem of the sequence cancer. Crohn's disease, conditions, where associated with a homozygous deletion, can be treated by administering an agent that: (a) modulates DPC4 expression, conditions, where associated with a homozygous deletion, can be treated by administering an agent that: (a) modulates DPC4 expression, contain sourcessed or (b) mimics the activity of DPC4. DPC4 nucleic acid contains also used as hybridisation probes for detecting presence/absence of the detected in this region, an agent can be administered that accumulates contains the absence of an enzyme (or other protein) encoded by a consighbouring gene and lost by the deletion, i.e. it has a highly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best Local Similarity Matches 16; Conserv
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RESULT 1569
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         death-associated protein kinase-rel. apoptosis-inducing protein kinase; serine/threonine kinase 17B; STK17B; apoptosis; degenerative disorder; neurological disorder; Alzheimer's disease; sissinson's disease; Amylotrophic lateral sclerosis; ALS; retinitis pigmentosa; blood cell disorder; cancer; autoimmune disorder; viral infection; gene therapy; hyperproliferative disorder; chromosome 2.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New isolated nucleic acid encoding the human myosin heavy chain protein MYH14, useful for identifying mutations or alterations in nucleic acid, derived from chromosome 19q 13.3.
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Pred.
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No. 9.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ب
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               to amplify the human
                                                                                                                                                                                                                                                                                                                                                                    all cytidines are
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AAQ20630
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                                                                                                                                                                                                                                                                                                                                                                                              Best Loc
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                            Synthetic
                                                                                                                                      Detection probe; sandwich hybridisation assay;
Major Outer Membrane protein; ss.
                                                                                                                                                                               Capture probe
                                                                                                                                                                                                            10-APR-1992
                                                                                                                                                                                                                                                                  AAQ20630 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               e.g.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New oligonucleotide compound that inhibits expression of DRAK2, useful for preparing a composition for treating hyperproliferative disorder,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    12-DEC-2002; 2002US-00318819
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US2004115645-A1
                                                                                                                                                                                                                                      AAQ20630
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Bennett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        12-DEC-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17-JUN-2004.
                                                                                                                                                                                                                                                                                                                                                                                                           Local
                                                                                                                                                                                                                                                                                                                                                       1928 CAGTGTGACTTTTAAAAC 1945
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2004-449384/42
                                                                                                                                                                                                                                                                                                                                        19
                                                                                                                                                                                                                                                                                                                                                                                              16;
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                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                    20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              represents an antisense oligonucleotide targeting DRAK2
                                                                                                                                                                                                                                                                                                                                        CAGTGGGACTTTGAAAAC 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                    B₽;
                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQ ID NO 20; 87pp;
                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Dobie KW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2002US-00318819
                                                                                                                                                                                #1
                                                                                                                                                                                                                                                                                                                                                                                                                                                    5 A; 6 C; 3 G;
                                                                                                                                                                             for detecting Chlamydia trachomatis MOMP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       'note= "2'-methoxyethyl residue'
                                                                                                                                                                                                                                                                                                                                                                                                          0.3%;
                                                                                                                                                                                                                                                                  ВP
                                                                                                                                                                                                                                                                                                                                                                                              0,
                                                                                                                                                                                                                                                                                                                                                                                                                          Score 14.8;
                                                                                                                                                                                                                                                                                                                                                                                                           Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                    6 T;
                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
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U;
                                                                                                                                                                                                                                                                                                                                                                                                           9.9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                    0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                          DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                       Length 20;
                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                               gene DNA.
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                                                                                                                                                                                                                                                                                                                                                                                              Gaps
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11-JUN-1990; 11-JUN-1990; 26-DEC-1991. WO9119812-A

90FR-00007249 90FR-00007249

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ADQ09450/c
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               to sentrin-2 (also known as SMT3H2, SMT3A and SUMO-3) and which module the expression of sentrin-2. The invention is useful for preparing a composition for treating hyperproliferative disorder such as cancer. I invention acts as a cytostatic agent. The invention is also useful in gene therapy. The present sequence is human sentrin-2 target oligonucleotide. This sequence is used in the exemplification of the
                                                                                                                                                                               Human; Angiopoietin-2; ss; antisense oligonucleotide; phosphorothioate linkage; 2'-O-methoxyethyl sugar moiety; 5-methylcytosine; hyperproliferative disorder; cancer; cytostatic.
                                                                                                                                                                                                                                                                                               ADQ09450 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New oligonucleotide compound that inhibits expression of sentrin-2, useful for preparing a composition for treating hyperproliferative disorder, e.g. cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ward
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cytostatic; gene therapy; human; ss.
                    modified_base
                                                                                                                                                                                                                           Human Angiopoietin-2 DNA antisense oligonucleotide #63.
                                                                                                                                                                                                                                                    09-SEP-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 20
                                                                                                                                                          Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention is directed to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10-DEC-2002; 2002US-00316638
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                                                                modified_base
                                                                                                                      modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       sapiens
                                                                                                                                                                                                                                                                                                                                                                         930 AAGGAGGTTCCTTTTCA 947
                                                                                                                                                                                                                                                                                                                                                        19
                                                                                                                                                                                                                                                                                                                                                                                                   16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ISIS PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                        AAGCAGGTTCCCTTTTCA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Dobie KW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                BP; 6 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQ ID NO 60; 35pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                   (first entry)
                                                                             are
                     /note= "
16. .20
                                                                            /mod_base= OTHER
/note= "OTHER= Phosphorothioate
are 5-methylcytidines"
                                                                                                                                     Location/Qualifiers
mod_base= OTHER
          *tag=
                                mod_base= OTHER note= "OTHER= 2"
                                                      *tag=
                                                                                                                                                                                                                                                                                                DNA;
                                                                                                                                                                                                                                                                                                                                                                                                             0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                5 C; 5 G; 4 T;
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                                                                                                                                                                                                                                                                                                ВP
                                                                                                                                                                                                                                                                                                                                                                                                   0
                                                                                                                                                                                                                                                                                                                                                                                                            Score 14.8; DB 1;
Pred. No. 9.9e+02;
                                 2'-O-Methoxyethyl (2'-MOE)
                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                               0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    antisense oligonucleotides
                                                                                                                                                                                                                                                                                                                                                                                                                         DB 1;
                                                                                         backbone.
                                                                                                                                                                                                                                                                                                                                                                                                                       Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                 nucleotides"
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                                                                                       cytidines
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                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
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encoding the human Angiopoietin-2 polypeptide. The compound is an antisense oligonucleotide that specifically hybridises with the nucleic acid and inhibits expression of the polypeptide. The antisense oligonucleotide comprises at least one modified internucleoside linkage i.e. a phosphorothioate linkage, at least one modified sugar moiety, preferably a 2'-O-methoxyethyl sugar moiety, or at least one modified nucleobase comprising a 5-methylcytosine. The antisense compounds are useful for modulating the expression of the human Angiopoietin-2 useful for modulating the expression of the human Angiopoietin-2
Sequence
                                                                               polypeptide and in preparation of a composition for treating hyperproliferative disorders, e.g. cancer. This sequence represents antisense oligonuclectide targeted to DNA encoding a human Angiopoie polypeptide of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   disorder, e.g., cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New oligonucleotide compound that inhibits expression of Angiopoietin-2, useful for preparing a composition for treating hyperproliferative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11-DEC-2002; 2002US-00317803
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to a compound targeted to a nucleic acid molecule
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 15; SEQ ID NO 86; 102pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2004-449380/42
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        20
BP; 6 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ₹;
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2 C; 4 G; 8 T; 0 U; 0 Other;
                                                                                                                  ылсе represents an
human Angiopoietin-2
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S 밁 Query Match
Best Local Similarity
Matches 16; Conserv 3228 ATCACTGAAATCATCAAC 3245 20 ATCTCTGAAATTATCAAC 3 Conservative 0.3%; 0; Score 14.8; D Pred. No. 9.9e 0; Mismatches 9.9e+02; Length Indels 0; Gaps 0;

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20;

Human myosin heavy chain MYH14 exon ADQ26959 standard; DNA; 20 DE10260633-A1 ss; human; non-muscle myosin-family heavy chain protein; chromosome 19q13.3; Charcot-Marie-Tooth syndrome; brain; 09-SEP-2004 16-DEC-2002; 2002DE-01060633. 24-JUN-2004. peripheral nerve; 16-DEC-2002; 2002DE-01060633 (first entry) ovary; intestine; primer; 쁑 21 PCR primer M21-R PCR. MYH14;

(RAUT/) RAUTENSTRAUSS

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ADP82069
ID ADP8206
XX ADP8206
AC ADP8206
XX
DT 26-AUG-
XX
DE Human 8
XX
                                                                                                                                           Query Match
Best Local Similarity
Matches 16; Conserv
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ADO48104
                                                                                                                                                                                                      The invention relates to a compound targeted to a nucleic acid molecule encoding Huntingtin interacting protein i (HIP-1) protein interactor. The compound is useful for treating an animal having a disease or condition associated with HIP-1 protein interactor, such as dysregulation of apoptosis. The compound may also be used for diagnostics, therapeutics, prophylaxis and as research agents and kits, or to elucidate the function of particular genes or to distinguish between functions of various members of a biological pathway. The present sequence represents a human HIP-1 antisense oligonucleotide target sequence.
                                                                                                                                                                                                                                                                                                                             New compounds targeted to a nucleic acid molecule encoding HIP-1 protein interactor, useful for treating an animal having a disease or condition associated with HIP-1 protein interactor, such as dysregulation of
          Human sentrin-2 antisense oligonucleotide
                              26-AUG-2004
                                                                 ADP82069 standard;
                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                    Example 15; SEQ ID NO 114;
                                                                                                                                                                                                                                                                                                                                                                    WPI; 2004-389149/36
                                                                                                                                                                                                                                                                                                                                                                                                                          19-NOV-2002; 2002US-00300263
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ss; Huntingtin interacting apoptosis dysregution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human HIP-1 target sequence ISIS 168200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  12-AUG-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADO48104 standard; DNA;
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                                                                                                                                 1534
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                                                                                                                μ
                                                                                                                                                                                       20
                                                                                                                           AGAAAATCCTGCAGCTCA 1551
                                                                                                                AGAATATCGTGCAGCTCA 18
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                                                                                                                                                                                       BP; 7 A;
                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                         PHARM INC
                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                 DNA;
                                                                                                                                                            0.3%;
                                                                                                                                                                                       4 C; 5 G; 4 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                   76pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             protein 1; HIP-1; HIP-1 protein
                                                                                                                                                   0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     354
                                                                                                                                                            Score 14.8;
Pred. No. 9
                                                                                                                                                    Mismatches
                                                                                                                                                            9.9e+02
                                                                                                                                                                    DB 1;
           ISIS #156261.
                                                                                                                                                                    Length 20;
                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              interactor;
                                                                                                                                                   0,
                                                                                                                                                   Gaps
                                                                                                                                                   0
                                                                                  RESULT 1566
ADP82103/c
  SXSXSXSXS
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                                                                                                                                                            Matches
                                                                                                                                                                    Query Match
Best Local S
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Sentrin-2; SMT3H2; SMT3A; SUMO-3; hyperproliferative disorder; cancer;
                  Human sentrin-2 target oligonucleotide #13.
                                                                                                                                                                                                Sequence 20
                                      26-AUG-2004
                                                         ADP82103;
                                                                                                                                                                                                                                                                                                                                                                                                                                                     10-JUN-2004.
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                                                                                                                                                             16;
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The present invention is directed to antisense oligonucleotides targeted to sentrin-2 (also known as SMT3H2, SMT3A and SUMO-3) and which modulate the expression of sentrin-2. The invention is useful for preparing a composition for treating hyperproliferative disorder such as cancer. The invention acts as a cytostatic agent. The invention is also useful in gene therapy. The present sequence is human sentrin-2 antisense oligonucleotide. This sequence is used in the exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         useful for preparing a composition for treating disorder, e.g. cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New oligonucleotide compound that inhibits expression of sentrin-2, useful for preparing a composition for treating hyperproliferative
                                                                                     ADP82103 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2004-440340/41.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sentrin-2; SMT3H2; SMT3A; SUMO-3; hyperproliferative disorder; cancer; cytostatic; gene therapy; human; antisense; phosphorothicate backbone;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 15; SEQ ID NO 26; 35pp; English.
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                                                                                                                                                                                                                                           930 AAGGAGGTTCCTTTTCA 947
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                                                                                                                                                                                                                                                                                                                                                                         BP; 4 A;
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(first entry)
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/mod_base= OTHER
/note= "2' -methc
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/note= "2'
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/note= "Phosphorothioate
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                                                                                     DNA;
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                                                                                                                                                                                                                                                                                                                                                                         G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                        Score 14.8; DB 1;
Pred. No. 9.9e+02;
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RESULT 1562
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Best Local S
Matches 16
                                            New compounds targeted to a nucleic acid molecule encoding HIP-1 interactor, useful for treating an animal having a disease or coassociated with HIP-1 protein interactor, such as dysregulation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to a compound targeted to a nucleic acid molecule encoding Huntingtin interacting protein i (HIP-1) protein interactor. The compound is useful for treating an animal having a disease or condition associated with HIP-1 protein interactor, such as dysregulation of apoptosis. The compound may also be used for diagnostics, therapeutics, prophylaxis and as research agents and kits, or to elucidate the function of particular genes or to distinguish between functions of various members of a biological pathway. The present sequence represents a human HIP-1 antisense oligonucleotide.
                                  apoptosis.
                                                                                                                        Dobie KW
                                                                                                                                                                                                                                                                          Homo
                                                                                                                                                                                                                                                                                                   apoptosis
                                                                                                                                                                                                                                                                                                              ss; Huntingtin interacting
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                                                                                               WPI; 2004-389149/36.
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                                                                                                                                                                                                                                                                                                              protein 1; HIP-1; HIP-1 protein interactor;
                                                                                                                                                                                                                                                                                                                                                                                                                   BP.
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Pred. No. 9
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Example 15;

SEQ

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76pp; English

Query Match
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Matches 16; Conserv

0.3%; ilarity 88.9%; Conservative

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Score 14.8; D: Pred. No. 9.9e 0; Mismatches

9.9e+02

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RESULT 1563
ADO48030
ID ADO4803
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Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to a compound targeted to a nucleic acid molecule encoding Huntingtin interacting protein 1 (HIP-1) protein interactor. The compound is useful for treating an animal having a disease or condition associated with HIP-1 protein interactor, such as dysregulation of apoptosis. The compound may also be used for diagnostics, therapeutics, prophylaxis and as research agents and kits, or to elucidate the function of particular genes or to distinguish between functions of various members of a biological pathway. The present sequence represents a human HIP-1 antisense oligonucleotide target sequence.
                                                                     The invention relates to a compound targeted to a nucleic acid molecule encoding Huntingtin interacting protein 1 (HIP-1) protein interactor. The compound is useful for treating an animal having a disease or condition associated with HIP-1 protein interactor, such as dysregulation of apoptosis. The compound may also be used for diagnostics, therapeutics, prophylaxis and as research agents and kits; or to elucidate the function of the compound may also be used for diagnostics.
                                                                                                                                                                                                                            New compounds targeted to a nucleic acid molecule encoding HIP-1 protein interactor, useful for treating an animal having a disease or condition associated with HIP-1 protein interactor, such as dysregulation of
                                           of particular genes or to distinguish between functions of various members of a biological pathway. The present sequence represents a
                                                                                                                                                                                  Example 15; SEQ ID NO 40; 76pp; English
                                                                                                                                                                                                                                                                                              WPI; 2004-389149/36.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens.
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                                                                                                                                                                                                                                                                                                                                                           (ISIS-) ISIS
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16; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 interacting protein 1; gution; antisense.
                             oligonucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DNA;
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88.9%;
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0; Mismatches
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Pred. No. 9.
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                                          sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to antisense oligonucleotides targeted to a nucleic acid molecule encoding Glucose transporter-4. The oligonucleotides specifically hybridise with the nucleic acid molecule encoding Glucose transporter-4 and inhibit the expression of Glucose transporter-4. The antisense oligonucleotide is useful for inhibiting the expression of Glucose transporter-4 in cells or tissues to prevent or treat diseases associated with their expression, such as a hyperproliferative disorder. In addition, the compound is used for diagnostics, prophylaxis, or as research reagents or kits. The present sequence represents a human glucose transporter-4 antisense oligonucleotide of the invention.
                                                                                                                                                                                                                                                                                                                                                   cytostatic; antisense therapy; cytokine-inducible kinase; cytokine-inducible kinase inhibitor; antisense technology; cytokine-inducible kinase expression; hyperproliferative disorder; human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New antisense oligonucleotides for modulating Glucose transporter-4 expression, useful for diagnosing, preventing or treating conditions associated with the transporter's expression e.g. hyperproliferative
             23-NOV-2002; 2002US-00304116.
                                     23-NOV-2002; 2002US-00304116
                                                                                        US2004101857-A1
                                                                                                                                                     modified_base
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                                                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                       antisense oligonucleotide;
                                                                                                                                                                                                                                                                                                                                                                                                       Human cytokine-inducible kinase antisense oligonucleotide #71
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADN30100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADN30100 standard; DNA;
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/mod_base= OTHER
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/note= "OTHER= Phosphorothicate backbone. All cytidines
are 5-methylcytidines"
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                                                                                                                                                      /mod_base= OTHER
/note= "OTHER= 2'-O-Methoxyethyl (2'-MOE) nucleotides"
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                                                                                                               "OTHER= 2'-O-Methoxyethyl (2'-MOE) nucleotides'
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Pred. No. 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0
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CC Cytokine-inducible kinase; a diagnostic method for identifying a disease cc state, comprising identifying the presence of Cytokine-inducible kinase in a diagnostic method for identifying a disease cc in a sample using at least one of the primers or probe comprising the motioned in the specification; a kit or assay conclectide sequences as mentioned in the specification; a kit or assay conclecting a disease or condition associated with Cytokine-inducible kinase, cc comprising administering to the animal a therapeutic or prophylactic cambunt of the compound so that expression of Cytokine-inducible kinase is chihibited. The antisense oligonuclectide is useful for inhibiting the corporative disease associated with the kinase expression, such as typerproliferative disorders. In addition, the compound is used for cdiagnostics, prophylaxis, or as research reagents or kits. This sequence crepresents a human cytokine-inducible kinase antisense oligonuclectide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention describes a compound 8-80 nucleobases in length targeted to a nucleic acid molecule encoding Cytokine-inducible kinase. The compound specifically hybridises with the nucleic acid molecule encoding Cytokine-inducible kinase (which comprises a sequence of 2169 bp fully defined in the specification) and inhibits the expression of Cytokine-inducible kinase. Also described are: a method of inhibiting the expression of
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Cytokine-inducible kinase, comprising contacting a preferred target segment of the nucleic acid encoding Cytokine-inducible kinase with one or more candidate modulators of Cytokine-inducible kinase, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New antisense oligonucleotides useful for modulating Cytokine-inducible kinase expression, useful for diagnosing, preventing or treating conditions associated with aberrant kinase expression e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Cytokine-inducible kinase in cells or tissues, comprising contacting the cells or tissues with the new compound so that the expression of Cytokine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 15; SEQ ID NO 86; 56pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  hyperproliferative disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2004-399685/37.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ward DT, Dobie
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               inducible kinase is inhibited; a method of screening for a modulator
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of fi

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Sequence 20
BP; 5 A;
6 C; 5 G; 4 T; 0 U; 0 Other;
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밁 á Query Match Best Local S Matches 16 2842 TGAAGTTTGGTGAGACTC 16; 19 Similarity TCAAGTTGGGTGAGACTC Conservative 0.3%; N 2859 0 Score 14.8; DB 1; Pred. No. 9.9e+02; Mismatches 2 Length Indels 0 Gaps 0

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RESULT 1561
ADO48029/c
                                         ADO48029;
                                              ADO48029 standard; DNA; 20
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Human HIP-1 antisense oligonucleotide ISIS 251684.

12-AUG-2004

(first entry)

apoptosis ss; Huntingtin interacting protein 1; HIP-1; HIP-1 protein interactor; dysregution; antisense

Homo sapiens Synthetic.

US2004096834-A1

20-MAY-2004

19-NOV-2002; 2002US-00300263

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ADN71
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                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 1558
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present sequence is that of primer 307CA2R which, with primer 307CA2F CC ADO43251, can be used to amplify 307CA2, a novel microsatellite marker CC associated with bipolar affective disorder and genetically related CC unipolar affective disorder: 307CA2 comprises a dinucleotide repeat. 11 CC Alleles (122-166 bp) have been detected. A locus for bipolar disorder and CC related unipolar affective disorders has been fine mapped on chromosome CC 1c(12) for the first time and several genes that are carrying mutations CC region is approximately 2 million base pairs of DNA in the chromosomal CC region 12q24.3 on the short arm of chromosome 12 between markers D12S2705 CC and D12S340. The inventors genotyped 21 newly described and previously published microsatellite markers in a sample of 381 Danish and British CC bipolar patients and compared the frequency of marker alleles to a compared the frequencies, which were highly statistically significant, were found for 10 of these markers. CC highly statistically significant, were found for 10 of these markers. CC Based on the results, the invention provides markers and methods of using CC them in diagnosing, or determining the susceptibility of an individual compounds for use as part of therapeutic and/or diagnostic methods. A method of treatment comprises administering a substance that modulates constitute gene or which modulates that modulates constitute gene or which modulates that modulates
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ewald
Kruse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Diagnosing, prognosing, or determining the susc
neuropsychiatric disorder using a C12 candidate
determining the structure, level of expression
polypeptide encoded by the gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 19;
                                                                      modified_base
                                                                                                                                                                                                                                 ss; human; antisense therapy; glucose transporter-4;
hyperproliferative disorder; probe.
                                                                                                                                                                                                                                                                               Human glucose transporter-4 antisense oligonucleotide #12
                                                                                                                                                                                                                                                                                                                                                                             ADN71971 standard;
                                                                                                                                                  modified_base
                                                                                                                                                                                                                                                                                                                  12-AUG-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      candidate gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        934
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AGGTTCCTTTTTCAAACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                            AGGTTCCGTTTTCAAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Kalsi G, N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BP; 4 A; 5 C; 4 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       79; 96pp;
/*tag= a
/mod_base= Other
/mote= "2'-methoxyethyl (2'-MOE) nucleotides"
                                                                                     /note= "Phosphorothioate backbone. All cytidines are
methylcytidines"
                                                                                                                                                                    Location/Qualifiers
                                                                                                                                     /*tag=
                                                                                                                      mod_base= Other
                                                                                                                                                                                                                                                                                                                                                                             DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    product.
                                                                                                                                                                                                                                                                                                                entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 or determining the susceptibility to, a ler using a C12 candidate gene region marker use, level of expression or activity of a
                                                                                                                                          σ
                                                                                                                                                                                                                                                                                                                                                                                                                                                           19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          951
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 14.8;
Pred. No. 9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   J.9e+02;
2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 HMD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 1; Length 20;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ₿,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mors 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    γġ
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ADN72048/c
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                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to antisense oligonucleotides targeted to a nucleic acid molecule encoding Glucose transporter-4. The oligonucleotides specifically hybridise with the nucleic acid molecule encoding Glucose transporter-4 and inhibit the expression of Glucose transporter-4. The antisense oligonucleotide is useful for inhibiting the expression of Glucose transporter-4 in cells or tissues to prevent or treat diseases associated with their expression, such as a hyperproliferative disorder. In addition, the compound is used for diagnostics, prophylaxis, or as research reagents or kits. The present sequence represents a human glucose transporter-4 antisense oligonucleotide of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New antisense oligonucleotides for modulating Glucose transporter-4 expression, useful for diagnosing, preventing or treating conditions associated with the transporter's expression e.g. hyperproliferative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ward
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 20 BP; 9 A; 2 C; 7 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 15; SEQ ID NO 24; 54pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US2004101848-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             modified_base
                                                                                                                                                                                                    Human glucose transporter-4 antisense oligonucleotide
                                                                                                                                                                                                                              12-AUG-2004
                                                                                                                                                                                                                                                        ADN72048;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       23-NOV-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               23-NOV-2002; 2002US-00303266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           27-MAY-2004
                                  23-NOV-2002; 2002US-00303266
                                                            23-NOV-2002;
                                                                                      27-MAY-2004.
                                                                                                              US2004101848-A1
                                                                                                                                                              hyperproliferative
                                                                                                                                                                            ss; human; antisense therapy; glucose transporter-4;
                                                                                                                                                                                                                                                                                ADN72048 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (ISIS-) ISIS PHARM INC.
          (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                        2803
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ŗ,
                                                                                                                                                                                                                                                                                                                                                                                                             Similarity
                                                                                                                                                                                                                                                                                                                                                                        AAGGAGAAAATGAAGAAG 2820
                                                                                                                                                                                                                                                                                                                                                AAGGTGAAGATGAAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Borchers AH,
                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2002US-00303266
                                                            2002US-00303266
                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16. .20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /*tag= c
/mod_base= Other
/note= "2'-methoxyethyl (2'-MOE) nucleotides"
                                                                                                                                                                                                                                                                                DNA;
                                                                                                                                                                 disorder;
                                                                                                                                                                                                                                                                                                                                                                                                            38.98;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Dobie
                                                                                                                                                                                                                                                                                                                                                18
                                                                                                                                                                                                                                                                                                                                                                                               0
                                                                                                                                                                                                                                                                                                                                                                                                            Score 14.8;
Pred. No. 9.
                                                                                                                                                                 probe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3
                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                           o.
                                                                                                                                                                                                                                                                                                                                                                                             8; LZ
. 9.9e+02;
2;
                                                                                                                                                                                                                                                                                                                                                                                                                         Length
                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                           20;
                                                                                                                                                                                                                                                                                                                                                                                                 0
                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
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RESULT 1556
ADO40167/C
ID ADO4016
XX
ADO4016
XC ADO4016
XZ
DT 29-JUL-
XX
DE Human M
XX
Mitogen
                                                                                                                                                                닭
                                                                                                                                                                                     Ś
                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                          Query Match
Best Local !
                                                                                                                                                                                                                                                                                  The invention relates to compounds, compositions and methods for modulating the expression of mitogen-activated protein kinase kinase kinase kinase 1 (also called MAPSK11, mixed-lineage protein kinase 3, MK-3, SH3-containing proline-rich protein kinase, SPRK). The composition comprise antisense oligonuclectides targeted to MAP3K11. The compound and the methods are useful in treating an animal having a disease or condition involving dysregulation of cellular apoptosis. The invention is also useful in gene therapy. The present sequence is an antisense oligonuclectide targeted to human MAP3K11 DNA. This sequence is used to illustrate the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                             New compound that modulates mitogen-activated protein kinase kinase kinase 11 expression, useful in treating an animal having a disease condition involving dysregulation of cellular apoptosis.
 Mitogen-activated protein kinase kinase kinase 11; MAP3K11;
                        Human MAP3K11 DNA target site
                                                 29-JUL-2004
                                                                           ADO40167;
                                                                                                 ADO40167 standard;
                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                         Example 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11-NOV-2002; 2002US-00293863
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2004-374982/35.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       11-NOV-2002; 2002US-00293863
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US2004092464-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (ISIS-) ISIS
                                                                                                                                                                                       3732 GGCAAGCAGGTGCCCGCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            therapy;
                                                                                                                                                                                                                16;
                                                                                                                                                                w
                                                                                                                                                                                                                          Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ÇF
                                                                                                                                                                                                                                                              20
                                                                                                                                                                                                                                                              BP; 2 A;
                                                                                                                                                                                                                                                                                                                                                                                                                        SEQ ID NO 15; 39pp; English.
                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PHARM INC
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                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /notē= "Phosphorothioate backbone in which all cytidine
residues are 5-methylcytidines"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             16. .20
/*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ¥,
                                                                                                 DNA;
                                                                                                                                                                                                                         0.3%;
                                                                                                                                                                                                                                                            6 C; 9 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      base= OTHER
== "2'-methoxyethyl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             antisense; phosphorothioate backbone; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        "2'-methoxyethyl (2'-MOE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Dobie
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                                                                                                 20
                                                                                                 ΒÞ
                                                                                                                                                                                       3749
                                                                                                                                                                20
                                                                                                                                                                                                             0
                                                                                                                                                                                                                         Score 14.8; DB 1;
Pred. No. 9.9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ₹
                         #4
                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (2'-MOE)
                                                                                                                                                                                                                                      DB 1;
                                                                                                                                                                                                             2
                                                                                                                                                                                                                                    Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        bases"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       равев"
                                                                                                                                                                                                             Indels
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                                                                                                                                                                                                             Gaps
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음 성

RESULT 1557

ADO43252 standard; DNA;

20

Homo sapiens

marker; neuroleptic;

Bipolar and unipolar affective

ADO43252; 29-JUL-2004

(first entry)

Bipolar affective disorder; Unipolar affective disorder; diagnosis;

disorder marker 307CA2 PCR

primer 307CA2R.

gene therapy; PCR; primer;

human;

31-OCT-2002; 2002GB-00025360

31-OCT-2003; 2003WO-GB004684

WO2004040016-A2 13-MAY-2004.

(UCLB-)

UCL BIOMEDICA. EWALD M V.

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Matches
                                                                                                        Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            gene
                                                                                                                                                                                                                                    comprise antisense oligonucleotides targeted to MAP3K11. The compound and the methods are useful in treating an animal having a disease or condition involving dysregulation of cellular apoptosis. The invention is also useful in gene therapy. The present sequence is human MAP3K11 DNA target site. This sequence is used to illustrate the method of the
                                                                                                                                                                                                                                                                                                                                              modulating the expression of mitogen-activated protein kinase k kinase 11 (also called MAP3K11, mixed-lineage protein kinase 3, SH3-containing proline-rich protein kinase, SPRK). The composit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New compound that modulates mitogen-activated protein kinase kinase kinase 11 expression, useful in treating an animal having a disease condition involving dysregulation of cellular apoptosis.
                                                                                                                                                                       Sequence 20
                                                                                                                                                                                                                    target site.
invention.
                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to compounds, compositions and methods modulating the expression of mitogen-activated protein kinass
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2004-374982/35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          11-NOV-2002; 2002US-00293863
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11-NOV-2002; 2002US-00293863.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US2004092464-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SH3-containing proline-rich protein kinase; SPRK; cellular apoptosis; gene therapy; human; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              mixed-lineage protein kinase 3; MLK-3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (ISIS-) ISIS PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                13-MAY-2004.
                                        3732 GGCAAGCAGGTGCCCGCG 3749
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          therapy; human;
18
                                                                                   16;
                                                                                                        Similarity 88.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CF,
GGCCAGCAGGTGCTCGCG
                                                                                                                                                                       B₽;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQ ID NO 51; 39pp; English.
                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Dean
                                                                                                                                                                       3 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MN,
                                                                                                                                                                       9 C; 6
                                                                                                                            0.3%;
                                                                                                                                                                       ဂ္
Н
                                                                                 0,:
                                                                                                                          Score 14.8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3
                                                                                                        Pred. No.
                                                                                                                                                                       2 T; 0 U;
                                                                                   Mismatches
                                                                                                     9.9e+02;
                                                                                                                                                                       0 Other;
                                                                                                                              DB 1;
                                                                                                                          Length
                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                The composition
                                                                                                                              20;
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                                                                                                                                                                                                                                                                                                                                                                                                                  for
                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                       MLK-3,
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RESULT 1554
ADP18277
                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to a method of designing primers for simultaneous camplification of target DNA fragments in a single multiplex polymerase chain reaction by aligning a first primer and a second primer. The method comprises: (a) aligning a first primer and a second primer, and (b) contain four or more bases that are perfectly matching to the 3' end does not contain seven or more bases that are perfectly matching to the 3' end cost one mismatch to the 3' end sequence of the first primer at its 3' end does not contain stx or more bases that are perfectly matching concept one mismatch to the 3' end sequence of the first primer at its 3' end does not contain stx or more bases that are perfectly matching comerce bases that are perfectly matching to a sequence anywhere of the first primer or the second primer, the first primer at its 3' end does not contain stx or core bases that are perfectly matching except one mismatch to a sequence anywhere of the first primer at its 3' end does not contain stx or more bases that are perfectly matching except cone mismatch to a sequence anywhere of the first primer or the second cone mismatch to a sequence anywhere of the first primer or the second cone mismatch to a sequence anywhere of the first primer or the second cone mismatch to a sequence anywhere of the first primer or the second cone mismatch to a sequence anywhere of the first primer or the second cone mismatch to a sequence anywhere of the first primer or the second cone mismatch to a sequence anywhere of the first primer or the second cone mismatch to a sequence anywhere of the first primer or the second cone mismatch to a sequence anywhere of the first primer or the second cone mismatch to a sequence of the first primer or the second cone mismatch to a sequence anywhere of the first primer or the second cone mismatch to a sequence of the first primer or the second cone mismatch to a sequence of the first primer or the second cone mismatch to a sequence of the first primer or the second cone mismatch to a sequence
                                                                                                                                                                                                                                                                                                                      Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          single multiplex polymerase genetic alteration; pharmacc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Designing primers for simultaneous amplification of target DNA fragments in a single multiplex polymerase chain reaction, for high throughput multiplex DNA sequence amplification, comprises aligning two primers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Single multiplex PCR primer #1382
  Condesin H sense primer seqid 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      07-OCT-2002; 2002US-0417009P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                07-OCT-2003; 2003WO-US031874
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                                          29-JUL-2004
                                                                                      ADP18277;
                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Disclosure; Page 39; 120pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2004-340914/31.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO2004033649-A2
                                                                                                                              ADP18277
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    tic alteration; pharmacogenetic reaction; genotyping; polymorphism;
expression profiling.
                                                                                                                                                                                                                                      18
                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                            standard;
                                                                                                                                                                                                                                      AAAGTATTCTGCCCAATG
                                                                                                                                                                                                                                                                            ACAGAATTCTGCCCAATG 687
                                                                                                                                                                                                                                                                                                                                                                                                     BP; 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       simultaneous
                                                                                                                                                                                                                                                                                                                        Conservative
                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                        Α;
                                                                                                                              DNA;
                                                                                                                                                                                                                                                                                                                                     0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                          4 C; 5
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                                                                                                                              ВP
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                                                                                                                                                                                                                                                                                                                                       Score 14.8; DB 1;
Pred. No. 9.9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                          6 T;
                                                                                                                                                                                                                                                                                                                      Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                        0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                              DB 1;
                                                                                                                                                                                                                                                                                                                                                           Length 20;
                                                                                                                                                                                                                                                                                                                        Indels
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                                                                                                                                                                                                                                                                                                                        Gaps
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ADO40131
ID ADC
XX
AC ADC
XX
AC ADC
XX
DT 29-
DT 29-
XX
XX
KW Mit
KW Mit
KW Mix
KW SH3
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        25-MAR-2004.
                                                                                                                                                                      ADO40131;
                                                                                                                                                                                                                ADO40131 standard;
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The invention describes a method of identifying a compound that induces comescence in a mammalian cell. The method comprises: culturing the mammalian cell in the presence and absence of the compound; assaying expression of at least one cellular gene selected from 73 genes given in the specification, in the cell in the presence and in the absence of the compound; and identifying compounds that induce senescence when expression of at least one of the cellular gene is higher in the presence of the compound than in the absence of the compound. Also described are: a compound that induces senescence with a method above; assessing efficacy of a treatment of a disease or the method above; assessing efficacy of a treatment of a disease or condition relating to abnormal cell proliferation or neoplastic cell growth; and identifying a compound that inhibits senescence-associated induction of cellular gene expression. Compounds that induce senescence in abnormally proliferating or neoplastic cells are useful for treating a complastic cell growth. This sequence represents a reverse transcriptase or condition relating to abnormal cell proliferation or neoplastic cells are used to identify genes induced and reverse franscriptase for primer used to identify genes induced and repressed follwing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cytostatic; senescence; cell proliferation; neoplastic cell growth; cellular gene expression; reverse transcriptase PCR; RT-PCR; primer; doxorubicin-induced sensescence; HCT 116 cell; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Identifying a compound that induces senescence in a mammalian cell, useful for treating abnormal cell proliferation, comprises assaying expression of a cellular gene in the cell in the presence and in that absence of a compound.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21-DEC-2000; 2000US-0257907P.
17-DEC-2001; 2001US-0341425P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21-DEC-2001; 2001US-00032264.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
                                                                                                        doxorubicin-induced sensescence of HCT 116 cells.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 2; SEQ ID NO 19; 29pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Roninson IB, Chang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (RONI/) RONINSON I B. (CHAN/) CHANG B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2004-294237/27.
BP; 7 A; 7 C; 3 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         assaying
and in the
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1451 GCAGCTCAAAGTCGACGT 1468 Similarity GCAGCTCAAAGTCCACAT 18 Conservative , \$6.98; 0 Pred. No. 9.9); Mismatches Score 14.8; 3; LL 9.9e+02; 2; Length 20; Indels 0 Gaps 0

DNA;

20 ВÞ Ś

뭉

BXSXXXX

Human MAP3K11 antisense oligonucleotide, ISIS 176607

(first entry)

Mitogen-activated protein kinase kinase kinase 11; MAP3K11; mixed-lineage protein kinase 3; MLK-3; proline-rich protein kinase; SPRK; cellular apoptosis;

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SXXXXXXXXXXXXX
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                                                                                                                                                                                                                                                                                                                                                                                       RESULT 1552
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                                                                                                                                                                                                                                                                                                                                          Best
                                                                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                                                        Query Match
                                           Mouse; SAC
diabetes;
                                                                                                                                                                                                                                                                                                                                                                                                                                    allergic rhinitis, acute respiratory distress syndrome, pulmonary hypertension, lung inflammation, bronchitis, airway obstruction of bronchoconstriction. This sequence represents an oligonucleotide of
Mus musculus
                              primer.
                                                                                           Murine
                                                                                                                        15-JUL-2004
                                                                                                                                                      ADM16274;
                                                                                                                                                                                     ADM16274 standard;
                                                                                                                                                                                                                                                                                                                                                                                       Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to codon, coding region, 5'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 2; SEQ ID NO 1383; 174pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Novel single or multiple target oligonuclectide anti-sense to e.g. initiation codon, intron of respiratory disease-relevant gene e.g. CCR1, RANTES, MCP4, useful for prophylaxis or treating respiratory disease e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2004-293804/27.
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(SAND/)
(TANG/)
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                                                                                                                                                                                                                                                                                                                                          Local
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                                                                                                                                                                                                                                                                                               900
                                            SAC1; PCR; 88;
es; alcoholism;
                                                                                           SACI
                                                                                                                                                                                                                                                                N
                                                                                                                                                                                                                                                                                                                                          Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NYCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SHAHABUDDIN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SANDRASAGRA A.
                                                                                                                                                                                                                                                                                             ATCCCGCTGACTGCCAGC
                                                                                                                                                                                                                                                               ATCCTGCTGACTGGCAGC
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in S, Lu H, Cong
                                                                                         DNA PCR
                                                                                                                                                                                                                                                                                                                                                                                       B₽;
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                                                                                                                        (first
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                                                                                                                                                                                     DNA;
                                                                                         primer #487.
                                                                                                                      entry)
                                                                                                                                                                                                                                                                                                                                        0.3%;
                                                                                                                                                                                                                                                                                                                                                                                       σ
                                            carbohydrate;
antidiabetic;
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ong H;
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                                                                                                                                                                                                                                                                                                                        Score 14.8; DB 1;
Pred. No. 9.9e+02;
0; Mismatches 2
                                                                                                                                                                                                                                                                                                                                                                                       4 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Aguilar D,
                                           sweetener; ethanol;
alcohol; anorectic;
                                                                                                                                                                                                                                                                                                                                                                                       0
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                                                                                                                                                                                                                                                                                                                                                                                       0 Other;
                                                                                                                                                                                                                                                                                                                                                        DB 1;
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                                                                                                                                                                                                                                                                                                                                                       Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                    oligonucleotide of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             to an initiation intron or region
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                                                           obesity;
                                            antialcoholic;
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                                                                                                                                                                                                                                                                                                                        Gaps
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BXXXB

15-JUL-2004 ADO12010;

(first entry)

RESULT 1553 ADO12010/c

ADO12010 standard; DNA; 20 BP

밁 S

20

GTGAGGGTAAGCACCAAG

4247 GTGAGGCTTAGCACCAAG 4264

16;

Conservative

0

9.9e+02

Ö

Gaps

0

Similarity

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CC relates to a method for analysing a blomolecule in a biological sample, CC comprising altering SAC1 activity in the sample and measuring the CC activity, a method for analysing a polynucleotide in a biological sample, CC comprising contacting a polynucleotide in a biological sample, CC comprising contacting a polynucleotide in a biological sample with a CC probe where the probe hybridises to a SAC1 polynucleotide to form a CC probe where the probe hybridises to a SAC1 polynucleotide to form a CC probe where the probe hybridises to a SAC1 polynucleotide to form a CC probe where the probe hybridises comprising comparing the nucleotide sequence of the suspected SAC1 allele with a wild type CC and the wild-type sequence identifies a sequence variation of the SAC1 nucleotide sequence, and a method of treating or preventing obesity, CC diabetes or alcoholism associated with expression of SAC1, comprising CC administering to a subject a pharmaceutical composition and a transgenic administering to a subject a pharmaceutical composition and a transgenic cCC invention are useful for screening drugs for inhibition or CC consumption therapies and for identifying sweeteners and alcohols. This sequence represents a PCR primer used to amplify murine SAC1 DNA of the
Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ...
                                                                                                                                                                                                                                                                                                                                                                            The invention relates to SAC1 polypeptides and the polynucleotides encoding them. The polynucleotides contain a variation associated with sensing carbohydrates, other sweeteners or ethanol. The invention also
                                                           Seguence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New isolated polynucleotides for sensing carbohydrates, other sweeteners, or ethanol, useful for screening drugs for inhibition or restoration of gene function as antidiabetic, antiobesity or antialcohol consumption
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ross
                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     therapies.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Bachmanov
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   25-OCT-2002;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BEAU/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DA,
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CHATTERJEE A.
DE JONG P J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TORDOFF M G.
ROSS D A.
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BEAUCHAMP G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AA, E
Ohman
                                                           ВP;
                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQ ID NO
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                                                                                                                                                                                                                                                                                                                                                                                                                                      544; 148pp; English.
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Score 14.8; D
Pred. No. 9.9e
0; Mismatches
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                                                         0 Other;
                                DB 1;
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PJ;
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ADO46981/c
ID ADO469
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CC prevention and/or treatment of a respiratory or lung disease. The CC oligonucleotides are useful for reducing or inhibiting expression of a CC gene or mRNA encoding interleukin-4 receptor, interleukin-5 receptor, CC CCR1, CCR3, Ectaxin-1, RANTES, MCP4, CD23, ICAM, VCAM, tryptase a, CCR1, CCR3, Ectaxin-1, RANTES, MCP4, CD23, ICAM, VCAM, tryptase a receptor control or long disease and control or long disease. The creeful for preventing or treating a respiratory or lung disease. The creeful for preventing or treating a respiratory or lung disease to cond/or increased levels of, adenosine and/or levels of adenosine A creceptor(s), and/or asthma and/or lung allergies associated with confinemation or an inflammatory disease. The respiratory or lung disease inflammation or an inflammatory disease. The respiratory or lung disease consistence of the constant of the constant control of the creation, lung inflammation, bronchitis, airway obstruction or convention. This sequence represents an oligonucleotide of the creation.
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                              Human; 88; interleukin-4 receptor; IL-4; interleukin-5 receptor; IL-CR1; CCR3; Eotaxin-1; RANTES; MCCP4; CD23; ICAM; VCAM; tryptase a; tryptase b; PDE4 A; PDE4 B; PDE4 C; PDE4 D; respiratory disease; lung disease; hyper-responsiveness; adenosine; adenosine A receptor; asthma; lung allergy; inflammation; inflammatory disease; aisthma; lung allergy; inflammation; inflammatory disease; chronic obstructive pulmonary disease; COPD; allergic rhinitis; acute respiratory distress syndrome; pulmonary hypertension;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADO46981 standard; DNA; 20
            WPI; 2004-293804/27
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                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens.
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                                         Nyce JW, Sandrasagra A, Ta
Shahabuddin S, Lu H, Cong
                                                                                                                                                                                                                                23-APR-2002; 2002WO-US013135.
23-APR-2002; 2002WO-US013143.
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                                                                                                                                                                    (SAND/)
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                                                                                                                                    TANG L.
AGUILAR D.
MILLER S.
                                                                                          CONG H.
                                                                                                                                                                                  SANDRASAGRA A.
                                                                                                                                                                                                 NYCE J W.
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                                                                                                                     SHAHABUDDIN S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CGAGTACATCTCCCGGAC 1
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                                         Tang L,
ong H;
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Pred. No. 9.
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                                                          Aguilar D,
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.9e+02;
                                                          Miller S;
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Cc chosen from a gene encoding interleukin (II)-4 receptor, interleukin (II)-CC -5 receptor, CCR1, CCR3, Eotaxin-1, RANTES, MCP4, CD23, ICAM, VCAM, CC tryptase a, tryptase b, PDE4 A, PDE4 B, DDE4 C or PDE4 D. The invention CC also relates to a method of screening a candidate compound that binds to CC one or more nucleic acid target(s) or expressed product(s), for the CC prevention and/or treatment of a respiratory or lung disease. The CC oligonucleotides are useful for reducing or inhibiting expression of a CC gene or mRNA encoding interleukin-4 receptor, interleukin-5 receptor, CC CCR1, CCR3, Eotaxin-1, RANTES, MCP4, CD23, ICAM, VCAM, tryptase a, CC tryptase b, PDE4 B, PDE4 C, or PDE4 D. The oligonucleotides are CC useful for preventing or treating a respiratory or lung disease. The CC respiratory or lung disease is associated with hyper-responsiveness to CC and/or increased levels of, adenosine and/or levels of adenosine A CC receptor(s), and/or asthma and/or disease. The respiratory or lung disease is chosen from airway inflammation, allergy, asthma, impeded respiration, CC systic fibrosis (CF), chronic obstructive pulmonary disease (COPD), CC allergic rhinitis, acute respiratory distress syndrome, pulmonary. CC invention. This sequence represents an oligonucleotide of the convention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to oligonucleotides anti-sense to an initiation codon, coding region, 5' or 3' intron-exon junction, intron or region with 2-10 nucleotides of the 5'-end or 3'-end of a nucleic acid target
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Novel single or multiple target oligonucleotide anti-sense to e.g. initiation codon, intron of respiratory disease-relevant gene e.g. CCR1, RANTES, MCP4, useful for prophylaxis or treating respiratory disease e.g.
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밁 Ş Matches Query Match Best Local Similarity 3223 18 CCAGAATCACTGAAAGCA 1 16; CCAGCATCACTGAAATCA 3240 Conservative 0.3%; 0; Score 14.8; Pred. No. 9. Mismatches .9e+02 DB 1; Length Indels <u>,,</u> Gaps <u>,,</u>

Sequence

20

BP; 2 A; 3 C; 5 G; 10 T; 0 U; 0 Other;

ADO46016; ADO46016 standard; DNA; 20 15-JUL-2004 (first entry)

RESULT 1551
ADO46016
ID ADO4601
XX ADO4601
XX ADO4601
XX ADO4601
XX ADO4601
XX Human;
XW Human;
XW CCR1; C
XW CYPptas
XW LYPptas
XW LYPptas
XW LYPptas
XW Asthmay
XW Asthmay
XW Asthmay
XW Acute x
XW Iung in
XX Homo sa
XX Homo sa
XX Homo sa
XX US20040
XX J1-MARXX PF 25-JULYR 23-APRPR 23-APR-Human; 88; interleukin-4 receptor; IL-4; interleukin-5 receptor; IL-5; CCR1; CCR3; Eotaxin-1; RANTES; MCP4; CD23; ICAM; VCAM; tryptase a; tryptase b; PDE4 A; PDE4 B; PDE4 D; respiratory disease; lung disease; hyper-responsiveness; adenosine; adenosine A receptor; asthma; lung allergy; inflammation; inflammatory disease; airhay allergy; inflammation; inflammatory disease; CFE chronic obstructive pulmonary disease; COPD; allergic rhinitis; acute respiratory distress syndrome; pulmonary hypertension; 23-APR-2002; 2002WO-US013135 23-APR-2002; 2002WO-US013143 Human oligonucleotide #1382. 25-JUL-2003; 2003US-00627930 US2004049022-A1 inflammation; bronchitis; airway obstruction; bronchoconstriction

DNA;

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The invention relates to oligonucleotides anti-sense to an initiation CC codon, coding region, 5' or 3' intron-exon junction, intron or region CC with 2-10 nucleotides of the 5'-end or 3'-end of a nucleic acid target CC chosen from a gene encoding interleukin (IL)-4 receptor, interleukin (IL)-5 receptor, CCR1, CCR3, Eotaxin-1, RANTES, MCP4, CD23, ICAM, VCAM, CC tryptase a, tryptase b, PDE4 A, PDE4 B, PDE4 C or PDE4 D. The invention CC also relates to a method of screening a candidate compound that binds to come or more nucleic acid target(s) or expressed product(s), for the compound to the compound that binds to come or more nucleic acid target(s) or expressed product(s), for the coligonucleotides are useful for reducing or inhibiting expression of a come or mana encoding interleukin-4 receptor, interleukin-5 receptor, CCR1, CCR3, Eotaxin-1, RANTES, MCP4, CD23, ICAM, VCAM, tryptase a, CC tryptase b, PDE4 A, PDE4 B, PDE4 C, or PDE4 D. The oligonucleotides are useful for preventing or treating a respiratory or lung disease. The ceptor(s), and/or asthma and/or lung allergies associated with hyper-responsiveness to compliance of increased levels of, adenosine and/or lung allergies associated with composity or lung disease. The respiratory or lung disease is chosen from airway inflammation, allergy, asthma, impeded respiration, cystic fibrosis (CP), chronic obstructive pulmonary disease (COPD), callergic rhinitis, acute respiratory distress syndrome, pulmonary of the composition of the composit
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        bronchoconstriction.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 2;
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RANTES, MC
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(SAND/)
(TANG/)
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23-APR-2002;
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SHAHABUDDIN
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TANG L.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQ ID NO 1601; 174pp;
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in S, Lu H,
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2002WO-US013143.
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Cong
This sequence
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ng H;
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        represents an oligonucleotide of the
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RESULT 1549
AD046584/c
ID AD04658
XX AD04658
XX AD04658
XX CCR1; C
XX Human;
XX Human;
XX CCR1; C
XX Human;
XX CCR1; C
XX airway
XX airway
XX airway
XX airway
XX lung in
XX lung in
XX INSONO
XX IN
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Best Local S
Matches 16
The invention relates to oligonucleotides anti-sense to an initiation codon, coding region, 5' or 3' intron-exon junction, intron or region with 2-10 nucleotides of the 5'-end or 3'-end of a nucleic acid target chosen from a gene encoding interleukin (IL)-4 receptor, interleukin (IL)-5 receptor, CCR1, CCR3, Ectaxin-1, RANTES, MCP4, CD23, ICAM, VCAM, tryptase a, tryptase b, PDE4 A, PDE4 B, PDE4 C or PDE4 D. The invention also relates to a method of screening a candidate compound that binds to one or more nucleic acid target(s) or expressed product(s), for the
                                                                                                                                                                                                                                                                                              Novel single or multiple target oligonucleotide anti-sense to e.g. initiation codon, intron of respiratory disease-relevant gene e.g. CCR1, RANTES, MCP4, useful for prophylaxis or treating respiratory disease e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; 88; interleukin-4 receptor; IL-4; interleukin-5 receptor; IL-9 (CRI; CCR3; Eotaxin-1; RANTES; MCP4; CD23; ICAM; CCRM; tryptase a; tryptase b; PDE4 A; PDE4 B; PDE4 C; PDE4 D; respiratory disease; lung disease; hyper-responsiveness; adenosine; adenosine A receptor; asthma; lung allergy; inflammation; inflammatory disease; airway inflammation; allergy; impeded respiration; cystic fibrosis; (chronic obstructive pulmonary disease; COPD; allergic rhinitis; acute respiratory distress syndrome; pulmonary hypertension; lung inflammation; bronchitis; airway obstruction; bronchoconstriction
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Shahabuddin S, Lu H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (SHAH/)
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23-APR-2002;
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Pred. No. 9.9e+02
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Best Local S
                                                                                                                                                                                                                                                                                                                  also known as HDAC-A. The composition comprises antisense compounds that can be targeted towards HDAC4. The antisense oligonucleotide is useful for inhibiting the expression of HDAC4 in cells or tissues. It is also useful for treating an animal having a disease or condition associated with HDAC4, such as a hyperproliferative disorder, particularly cancer (i.e. myeloid leukaemia). The compound is used for diagnostics, prophylaxis, or as research reagents or kits. It is also useful in antisense therapy. The present sequence is an antisense oligonucleotide targeted towards human HDAC4 DNA.
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Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to antisense compounds, compositions and methods for modulating the expression of histone deacetylase 4 (HDAC4). HDAC4 is also known as HDAC-A. The composition comprises antisense compounds that
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New antisense oligonucleotides for modulating Histone deacetylase 4 expression, useful for diagnosing, preventing or treating diseases or conditions associated with Histone deacetylase 4, such as cancer (i.e.
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cytostatic; antimicrobial; antiinflammatory;
                          Human histone deacetylase 4 antisense oligonucleotide segid 39.
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16. .20
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/mod_base= OTHER
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are 5-methylcytidines"
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RESULT 1548 ADO46234

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Matches
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Best Local (
                                                                                                                                                                                                                                      composition comprising the new antisense compound and a pharmaceutical carrier or diluent; and a method of inhibiting the expression of Histone deacetylase 4 in human cells or tissues, comprising contacting the cells or tissues with the new compound so that the expression of Histone deacetylase 4 is inhibited. The antisense oligonucleotide is useful for modulating the expression of Histone deacetylase 4 in cells or tissues. It is also useful for treating humans having a disease or condition associated with Histone deacetylase 4, such as cancer, infection or inflammation. In addition, the compound is used for diagnostics, prophylaxis, or as research reagents or kits. This sequence represents a human histone deacetylase 4 antisense oligonucleotide.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               length targeted to a nucleic acid molecule encoding human Histone deacetylase 4 (which comprises a sequence of 8459 bp fully defined in the specification). The compound specifically hybridizes with and inhibits the expression of human Histone deacetylase 4. Also described are: a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New antisense oligonucleotides for modulating human Histone deacetylase 4 expression, useful for diagnosing, preventing or treating diseases associated with Histone deacetylase 4, e.g. cancer, infection or
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                                                                                                                                                                                                    Sequence 20
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are 5-methylcytidines"
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                   chimeric; antisense oligonucleotide; phosphorothioate; human; microsomal prostaglandin E2 synthase; mpCBS-1; mpCBS-1 inhibitor; microsomal prostaglandin E2 synthase; mpCBS-1; mpCBS-1 inhibitor; cytostatic; antidiabetic; immunomodulator; cardiant; neuroprotective; antiinflammatory; neuroprotective; nootropic; antiarthritic; vasotropic; ophthalmological; immunomodulatory; cardiovascular; gene therapy; inflammation; hlzheimer's disease; arthritis; diabetes; cancer; ischaemia; reperfusion injury; ophthalmic disorder; immunological disorder; reperfusion injury; ophthalmic disorder; immunological disorder;
modified_base
                                                                                                                                                           modified_base
                                                                                                                                                                                                                                                                   synthetic.
                                                                                                                                                                                                                                                                                                                                                               cardiovascular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-JUL-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 4; SEQ ID NO 1275; 132pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2004-305094/28
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1534 AGAAAATCCTGCAGCTCA 1551
                                                                                                                                                                                                                                                                                              sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BP; 5 A; 2 C; 4 G; 9 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         chimeric antisense oligonucleotide SEQ ID NO:1477.
                                                                                                                                                                                                                                                                                                                                                           disorder; neurological disorder; ss.
residues
                                                                                                                                                                                                Location/Qualifiers
                           /note= "phosphorothicate linkages and residues are 5-methylcytidines"
                                                                                              /*tag= b
/mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   88.98;
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Pred. No. 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
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                                                                all cytidine
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RESULT 1546
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local
Histone deacetylase 4; HDAC4; hyperproliferative disorder; cancer; antisense therapy; human; myeloid leukaemia; phosphorothioate backbone; antisense; ss; HDAC-A.
                                                                                                                                                                   15-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New antisense compound, having a sequence targeted to a nucleic ac
encoding mPGES-1, useful for preparing a composition for treating
inflammation, Alzheimer's disease, arthritis, diabetes, cancer or
                                                                                                                                                                                                                        ADN49278
                                                                                                                                                                                                                                                                           ADN49278 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 4; SEQ ID NO 1477; 132pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gierse JK
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                                                                                                             HDAC4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BP;
                                                                                                             specific
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                                                                                                                                                                (first entry)
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/mod_base= (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4 A; 3 C; 4
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/mod_base= OTHER
/mote= "2'-O-methoxyethyls"
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16. .20
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                                                                                                          antisense
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Pred. No. 9.90
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 14.8;
                                                                                                          oligo,
                                                                                                          ISIS 130869.
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                   chimeric; antisense oligonucleotide; phosphorothioate; human; microsomal prostaglandin E2 synthase; mpGES-1; mpGES-1 inhibitor; microsomal prostaglandin E2 synthase; inhibitor; cytostatic; antidiabetic; immunomodulator; cardiant; neuroprotective; antiinflammatory; neuroprotective; nootropic; antiarthritic; vasotropic; ophthalmological; immunomodulatory; cardiovascular; gene therapy; inflammation; Alzheimer's disease; arthritis; diabetes; cancer; ischaemia; reperfusion injury; ophthalmic disorder; immunological disorder; cardiovascular disorder; neurological disorder; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 20 BP; 7
The present sequence represents a chimeric antisense oligonucleotide targeted to human microsomal prostaglandin E2 synthase (mPGES-1). The human mPGES-1 gene is located on chromosome 9, more specifically to
                                                                 New antisense compound, having a sequence targeted to a nucleic acid encoding mPGES-1, useful for preparing a composition for treating e.g., inflammation, Alzheimer's disease, arthritis, diabetes, cancer or
                                                                                                                                                                                                                                                                       modified_base
                                                                                                                                                                                                                                                                                                              modified_base
                                        Claim 4; SEQ ID
                                                                                                                                                                  25-SEP-2002; 2002US-0413549P
                                                                                                                                                                                    25-SEP-2003; 2003WO-US030374.
                                                                                                                                                                                                                          WO2004028458-A2
                                                                                                                                                                                                                                                                                                                                                            modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human mPGES-1 chimeric antisense oligonucleotide SEQ ID NO:59.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADM13872
                                                                                                                                               (PHAA ) PHARMACIA CORP.
                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADM13872 standard; DNA; 20
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                                                                                                         2004-305094/28.
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ilarity 88.9%;
Conservative
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                                       NO 59; 132pp; English.
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16. .20
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                                                                                                                                                                                                                                                                                                                        residues are
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d
                                                                                                                                                                                                                                                                                                                       note= "phosphorothicate linkages esidues are 5-methylcytidines"
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                                                                                                                                                                                                                                           _base= OTHER
e= "2'-O-methoxyethyls"
                                                                                                                                                                                                                                                                                                                                           _base= OTHER
                                                                                                                                                                                                                                                                                 "2'-O-methocyethyls"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 14.8; DB 1;
Pred. No. 9.9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
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ADM15088/c
ID ADM1508
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          25-SEP-2002; 2002US-0413549P
                             25-SEP-2003; 2003WO-US030374.
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Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens.
Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             chimeric; antisense oligonucleotide; phosphorothioate; human; microsomal prostaglandin E2 synthase; mPGES-1 mPGES-1 inhibitor; microsomal prostaglandin E2 synthase; mPGES-1; mPGES-1 inhibitor; antidiabetic; immunomodulator; cardiant; neuroprotective; antiinflammatory; neuroprotective; nootropic; antiarthritic; vasotropic; ophthalmological; immunomodulatory; cardiovascular; gene therapy; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           antisense oligonucleotides and antisense compounds have cytostatic, antidiabetic, immunomodulator, cardiant, neuroprotective, antinflammatory, neuroprotective, nootropic, antinflammatory, neuroprotective, nootropic, antinflammatory, neuroprotective, nootropic, antienthritic, vasotropic, ophthalmological, immunomodulatory and cardiovascular activities, and can be used as mPGES-1 inhibitors and in gene therapy. The antisense compound can be used for preparing a composition for treating a disease or condition associated with mPGES-1 e.g., inflammation, Alzheimer's disease, arthritis, diabetes, cancer, ischaemia or reperfusion injury, or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9q34.3. The present invention also describes: (1) antisense compounds, having a sequence comprising 8-30 bp targeted to a nucleic acid encoding mPGES-1, which specifically hybridise with the nucleic acid mPGES-1 and inhibits its expression; (2) a method of inhibiting the expression of mPGES-1 in cells or tissues; and (3) a method of treating an animal having a disease or condition associated with mPGES-1. MPGES-1 chimeric
                                                                                                                                                                                                                                                                                       modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Alzheimer's disease; arthritis; diabetes; cancer; ischaemia; reperfusion injury; ophthalmic disorder; immunological disorder; cardiovascular disorder; neurological disorder; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADM15088;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ophthalmic, immunological, cardiovascular or neurological disorder
                                                                                                                                                    modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                               modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human mPGES-1 chimeric antisense oligonucleotide SEQ ID NO:1275
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADM15088 standard;
WO2004028458-A2
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                                                                                                                     /*tag=
                                                                                                                                                                                                                                                                                                                  residues
                                                                                                                                                          16. .20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
                                                                                                                                                                                     /note=
                                                                                                                                                                                                                                                                                                                     /note = "phosphorothioate linkages and all cytidine
residues are 5-methylcytidines"
                                                                                                                                                                                                                                                                                                                                                                                  mod_base= OTHER
                                                            'mod_base= OTHER
'note= "2'-O-methoxyethyls"
                                                                                                                                                                                                                                                     *tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 88.9%;
                                                                                                                                                                                                                          base=
                                                                                                                                                                                         "2'-O-methocyethyls"
                                                                                                                                                                                                                          OTHER
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 14.8; DB 1;
Pred. No. 9.9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0;
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Synthetic

01-JUL-2004 . پ

(first

Human mPGES-1

chimeric antisense oligonucleotide SEQ ID NO:80

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AXID
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                                                                                                                           S
                                                       RESULT 1542
                                                                                                                                                        Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                    antisense oligonucleotides and antisense compounds have cytostatic, antidiabetic, immunomodulator, cardiant, neuroprotective, antinflammatory, neuroprotective, noutropic, antiarthritic, vasotropic, phthalmological, immunomodulatory and cardiovascular activities, and can be used as mPGES-1 inhibitors and in gene therapy. The antisense compound can be used for preparing a composition for treating a disease or condition associated with mPGES-1 e.g., inflammation, Alzheimer's disease, arthritis, diabetes, cancer, ischaemia or reperfusion injury, or
                                                                                                                                                                                                                                                                                                                                                                      marges-1, which specifically hybridise with the nucleic acid encoding inhibits its expression, (2) a method of inhibiting the expression of marges-1 in cells or tissues; and (3) a method of treating an animal having a disease or condition associated with marges-1. Marges-1 chimeric
ADM13893;
                          ADM13893 standard;
                                                                                                                                                                                                               Sequence 20
                                                                                                                                                                                                                                             ophthalmic,
                                                                                                                                                                                                                                                                                                                                                                                                                                               The present sequence represents a chimeric antisense oligonucleotide targeted to human microsomal prostaglandin E2 synthase (mbCES-1). The human mbGES-1 gene is located on chromosome 9, more specifically to 9q34.3. The present invention also describes: (1) antisense compounds,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New antisense compound, having a sequence targeted to a nucleic acid encoding mPGES-1, useful for preparing a composition for treating e. inflammation, Alzheimer's disease, arthritis, diabetes, cancer or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 4; SEQ ID NO 1460; 132pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gierse
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (PHAA ) PHARMACIA CORP
                                                                                                                             1534
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                                                                                                18
                                                                                                                          AGAAAATCCTGCAGCTCA
                                                                                                AGAAAATCCTTCAGCTAA 1
                                                                                                                                                                                                                  BP; 5 A;
                                                                                                                                                                                                                                          immunological,
                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         16. .20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /note= "phosphorothioate linkages and all cytidine
residues are 5-methylcytidines"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          *tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    mod
                          DNA;
                                                                                                                                                                  0.3%;
                                                                                                                                                                                                               2 C; 4 G; 9 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         _base= Оїньк
e= "2'-O-methocyethyls"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "2'-0-methoxyethyls"
                          20
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                                                                                                                                                                                                                                             cardiovascular
                                                                                                                           1551
                                                                                                                                                      °;
                                                                                                                                                                     Score 14.8;
Pred. No. 9
                                                                                                                                                        Mismatches
                                                                                                                                                                    9.9e+02;
                                                                                                                                                                                      DB
                                                                                                                                                                                                                                          or neurological
                                                                                                                                                                                 1
                                                                                                                                                                                 Length
                                                                                                                                                        Indels
                                                                                                                                                                                                                                           disorder
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                                                                                                                                                      Gaps
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The present sequence represents a chimeric antisense oligonucleotide targeted to human microsomal prostaglandin E2 synthase (mPGES-1). The human mPGES-1 gene is located on chromosome 9, more specifically to 9344.3. The present invention also describes: (1) antisense compounds, having a sequence comprising 8-30 bp targeted to a nucleic acid encoding mPGES-1, which specifically hybridise with the nucleic acid mPGES-1 and inhibits its expression; (2) a method of treating the expression of mPGES-1 in cells or tissues; and (3) a method of treating an animal having a disease or condition associated with mPGES-1. MPGES-1 chimeric antisense oligonucleotides and antisense compounds have cytostatic, antisense compounds and contaction.
                                              antidiabetic, immunomodulator, cardiant, neuroprotective, antianflammatory, neuroprotective, nootropic, antianflammatory, neuroprotective, nootropic, antiarthritic, vasotropic, ophthalmological, immunomodulatory and cardiovascular activities, and can be used as mPGES-1 inhibitors and in gene therapy. The antisense compound can be used for preparing a composition for treating a disease or condition associated with mPGES-1 e.g., inflammation, Alzheimer's disease, arthritis, diabetes, cancer, ischaemia or reperfusion injury, or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New antisense compound, having a sequence targeted to a nucleic encoding mPGES-1, useful for preparing a composition for treatir inflammation, Alzheimer's disease, arthritis, diabetes, cancer of the composition of the composition of the compound of the c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               chimeric; antisense oligonucleotide; phosphorothioate; human; microsomal prostaglandin E2 synthase; mpCES-1; mpGES-1 inhibitor; microsomal prostaglandin E2 synthase; inhibitor; cytostatic; antidiabetic; immunomodulator; cardiant; neuroprotective; antiinflammatory; neuroprotective; nootropic; antiarthritic; vasotropic; ophthalmological; immunomodulatory; cardiovascular; gene therapy; inflammation; Alzheimer's disease; arthritis; diabetes; cancer; ischaemia; reperfusion injury; ophthalmic disorder; immunological disorder; cardiovascular disorder; neurological disorder; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 4; SEQ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      sapiens
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/mod_base= OTHER
/mote= "2'-O-methoxyethyls"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16. .20
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residues are 5-methylcytidines"
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             cardiovascular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ·O-methocyethyls"
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neurological
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cancer or
             disorder
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     e.g.,
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                                                                                                                                                                                                                                                                                                      ADN89
                                                                                                                                                                                                                                                                                                                     RESULT 1540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         expression of isoprenylcysteine carboxyl methyltransferase (also known as CICMT, PCCMT, pcMTase, PPMT, PPMTase, HSTE14, MST098 and MSTP098) and CICMT, PCCMT, pcMTase, PPMT, PPMTase, HSTE14, MST098 and MSTP098) and CIC located on chromosome 1936. Specifically, it refers to compositions useful for inhibiting the expression of isoprenylcysteine carboxyl methyltransferase, which normally participates in cellular events such as growth factor signal transduction, cell replication, vesicular transport and the post-translational modification of the Ras family of GTPases. The present invention describes antisense oligonucleotides that comprise at least one modified sugar modety, a 2'-O-methoxyethyl (2' MOE) and at least one modified sugar modety, a 2'-O-methoxyethyl (2' MOE) and at least one modified nucleobase, a 5-methylcytosine. Accordingly, these compounds are useful for treating a disease or condition associated with isoprenylcysteine carboxyl methyltransferase such as a hyperproliferative disorder (e.g. cancer), an inflammatory condition, hypertension or cardiovascular disease. As such, they exhibit cytostatic, and are useful for research reagents and in diagnostics. This oligonucleotide sequence is a DNA oligo representing a preferred target site for antisense therapy in human isoprenylcysteine carboxyl methyltransferase, given in an exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local
                                                    P16DF; primer; ss; nucleic acid label; hybridization assay; primer extension; terminal transferase addition; ligation; end labelling; PCR; nick translation labelling; reverse transcription; southern blotting; Northern blotting; enzyme linked immunosorbant assay; ELISA; arrays; SKYE; cloning; transcription; abortive transcription;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New compounds, particularly antisense oligonucleotides targeted to nucleic acid encoding isoprenylcysteine carboxyl methyltransferase, useful for treating cancer, hypertension, or cardiovascular or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens.
                                                                                                                                                                    P16DF PCR primer #1.
                                                                                                                                                                                                         01-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 15; SEQ ID NO 96; 62pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    31-MAY-2002; 2002US-00159834
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US2003228688-A1.
                                                                                                                                                                                                                                                                                  ADN89289 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     This invention relates to a novel antisense compounds that modulate the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               inflammatory disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           31-MAY-2002; 2002US-00159834.
                                                                                                                                                                                                                                                                                                                                                                                                3362 CCCGCTGGGGCCCTGCAG 3379
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BP; 2 A; 8 C; 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                  DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    88.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0.3%;
                                                                                                                                                                                                                                                                                  20
                                                                                                                                                                                                                                                                                  ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                     <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 14.8;
Pred. No. 9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9.9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 1; Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                   0;
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RESULT 1541
ADM15273/c
ID ADM1527
XX
AC ADM1527
XX
C ADM1527
XX
C ADM1527
XX
W Chimen m
XX
Chimeri
KW chimeri
KW microsc
KW microsc
KW microsc
KW neuropx
KW immunom
KW neuropx
KW immunom
KW reperfu
KW cardiou
XX
Homo se
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2951 CTATGGCGAGGGCTGCAT 2968

Query Match
Best Local Similarity
Matches 16; Conserv

16;

Conservative

0;

88.9%;

0.3%;

Score 14.8; Pred. No. 9. Mismatches

9.9e+02 DB 1; 2;

Length Indels

<u>,</u>

Gaps

0

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N

CTCTGGCGAGGGCTGCTT

19

ADM15273 standard; DNA; 20

Human mPGES-1 01-JUL-2004 ADM15273;

chimeric antisense oligonucleotide SEQ ID NO:1460

(first entry)

chimeric; antisense oligonucleotide; phosphorothioate; human; microsomal prostaglandin E2 synthase; mpGES-1; mpGES-1 inhibitor; microsomal prostaglandin E2 synthase; inhibitor; cytostatic; antidiabetic immunomodulator; cardiant; neuroprotective; antiinflammatory; neuroprotective; antiarthritic; vasotropic; ophthalmological; meuroprotective; notropic; antiarthritic; vasotropic; ophthalmological;

cytostatic; antidiabetic;

immunomodulatory; cardiovascular; gene therapy; inflammation; Alzheimer's disease; arthritis; diabetes; cancer; ischaemia; reperfusion injury; ophthalmic disorder; immunological disord

disorder; neurological

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substituted pyrimidine analogue. The method is useful for labelling a nucleic acid. The method is useful for detecting a second nucleic acid of interest. The method is useful for labelling a nucleic acid which is used in hybridization assays, primer extension, terminal transferase additions, ligation, end labelling, PCR, nick translation labelling, reverse transcription, Southern blotting, Northern blotting, enzyme linked immunosorbant assay (BLISA), arrays, SKYE, cloning, transcription, abortive transcription, sequencing, diagnostic techniques, therapeutic applications, and treatment and prevention of diseases and conditions. The labelled nucleic acids are useful in assessing methylation state of specific genes, detecting presence of known genetic mutations, detecting mRNA expression levels, detecting presence of pathogenic organisms, and detecting and amplifying proteins. The present sequence represents a
Sequence 20 BP; 1 A;
                                                                                                                                                                                                                                                                                                                           The invention relates to a method of labelling a nucleic acid which involves incorporating at least one nucleotide analogue into a nucleic acid, where the analogue comprises an 8-S-substituted purine or 5-S-substituted pyrimidine analogue. The method is useful for labelling a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Labeling nucleic acid which is used in hybridization assays, primer extension, terminal transferase additions, involves incorporating 8-separative purine or 5-8-substituted pyrimidine analog into nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Hanna
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               30-OCT-2001; 2001US-00984664.
29-OCT-2002; 2002WO-US034419.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               29-APR-2003; 2003US-00425037
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                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure; SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2004-281628/26.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (HANN/) HANNA M M.
                                                                                                                                                                                                                                                                                                                                                                                                                                        NO 1; 104pp; English
6 C; 8 G; 5 T; 0 U; 0 Other;
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RESULT 1538
ADJ10496
ID ADJ1049
XX ADJ1049
XX Phospho
XX FT Modifie
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Best Local
                                                                                                                                                                                                                            human; isoprenylcysteine (aller);
ppWT; ppWTase; HSTEL4; MST098; MSTP098;
growth factor signal transduction; cell replication; vesicular transport;
ppvproliferative disorder; cancer; inflammatory; hypertension;
cardiovascular; cytostatic; antiinflammatory; hypotensive; cardiant;
ICWT; antisense; phosphorothioate backbone; 2' MOE wing.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              by in vitro detection, in a patient sample, of the expression of R-cadherin (I). The method of the invention has cycostatic activity. The method is used to diagnose embryonal and/or alveolar rhabdomyosarcoma. Also conjugates of antibodies (directed against the extracellular domain of R-cadherin or against membrane proteins of skeletal muscle cells) with anticancer agents or R-cadherin-suppressing RNA are used for treatment or prevention of embryonal and/or alveolar rhabdomyosarcoma. Labelled antibody conjugates directed against the extracellular domain of R-cadherin can also be used for in vivo detection of R-cadherin-expressing tumour foci. R-cadherin is the first specific marker for rhabdomyosarcoma identified and allows differentiation between rhabdomyosarcoma and other diseases such as osteosarcoma and Ewing tumour. The present sequence represents a RT-PCR primer used in the invention to amplify R-cadherin.
                              modified_base
                                                                                                    modified_base
                                                                                                                                                             modified_base
                                                                                                                                                                                                            Synthetic
                                                                                                                                                                                                                                                                                                                                                         Phosphorothicate antisense DNA oligo to
                                                                                                                                                                                                                                                                                                                                                                                        17-JUN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADJ10496 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
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                                                                                                                                                                                                                          sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        treatment with conjugates targeted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2004-319466/30
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       rhabdomyosarcoma,
                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2002FR-00011525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 relates to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ID NO 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Charrasse
                              cytidine nucleobases
                                                                                     /*tag=
                                                                                                                                   /mod
                                                                                                                                                                               Location/Qualifiers
                *tag=
                                                             note= "OTHER=
                                                                                                                     'note=
                                                                                                                                                 /*tag= b
mod_base= OTHER
                                                                            mod
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.3%;
                                                                                                                                    base= OTHER
                                                                       base= OTHER
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                                                                                                                     "OTHER= phosphorothicate backbone
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 14.8; DB 1
Pred. No. 9.9e+02
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Comunale
                                         2' methoxyethyl (2' MOE) nucleotides.
obases are 5-methylcytidine."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       λĄ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        detecting expression of R-cadherin, rgeted to R-cadherin or muscle cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 T
                                                                                                                                                                                                                                                                                                                                                          modulate human ICMT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ۲.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20;
                                                                                                                                                                                                                                                                                                                                                         SeqID
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                                                                                                                                                                                                                                                                                                                                                          23
                                                           A11
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/note= "OTHER= 2' methoxyethyl (2' MOE) nucleotides.
cytidine nucleobases are 5-methylcytidine."
                                   A11
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US2003228688-A1

11-DEC-2003

31-MAY-2002; 2002US-00159834.

31-MAY-2002; 2002US-00159834.

(ISIS-) ISIS PHARM INC

Dobie ₹

WPI; 2004-081071/08

nucleic acid encoding isoprenylcystelne couseful for treating cancer, hypertension, inflammatory disease. New compounds, particularly antisense oligonucleotides targeted to a nucleic acid encoding isoprenylcysteine carboxyl methyltransferase, or cardiovascular ç

Example 15; SEQ ID NO 23; 62pp; English.

CC expression of isoprenylcysteine carboxyl methyltransferase (also known as CI CNT, PCCMT, pcMTase, PPMT, PPMTase, HST14, MST098 and MSTP098) and CC located on chromosome 1936. Specifically, it refers to compositions CC useful for inhibiting the expression of isoprenylcysteine carboxyl carboxyl transferase, which normally participates in cellular events such as CC growth factor signal transduction, cell replication, vesicular transport CC and the post-translational modification of the Ras family of GTPases. The CC least one modified nucleobase antisense oligonucleotides that comprise at CC least one modified nucleobase, a 5-methylcytosine. Accordingly, these CC compounds are useful for treating a disease or condition associated with C1 comprenylcysteine carboxyl methyltransferase such as a hyperproliferative CC isoprenylcysteine carboxyl methyltransferase such as hyperproliferative CC cardiovascular disease. As such, they exhibit cytostatic, antiinflammatory, hypotensive and cardiant activities and are useful for cresearch reagents and in diagnostics. This oligonucleotide sequence is a phosphorothioate antisense DNA oligo used to modulate human CC exemplification of the invention. This invention relates to a novel antisense compounds that modulate the

Sequence 20 B₽; 2 A; 8 Ç 8 <u>ი</u> N 0 ₽, 0 Other;

밁 Ś Matches Query Match Best Local . 3362 w l Similarity 16; Conserv cccecreeecccrecae 3379 ccceerececccrecae Conservative 0.3%; 20 0 Score 14.8; DB 1; Pred. No. 9.9e+02; Mismatches DB 1; Length Indels 0 Gaps 0

RESULT 1539 ADJ10569/c

ADJ10569 standard; DNA; 20

ADJ10569,

17-JUN-2004 (first entry)

Target DNA oligo for antisense therapy of human ICMT SeqID

96.

human; isoprenylcysteine carboxyl methyltransferase; as; PCCMT; pcMTase; PPMT; PPMTase; HSTE14; MST098; MSTP098); replication; vesicular transport; growth factor signal transduction; cell replication; vesicular transport; hyperproliferative disorder; cancer; inflammatory; hypertension; cardiovascular; cytostatic; antiinflammatory; hypotensive; cardiant; Cysteine carboxyl methyltransferase; HSTE14; MST098; MSTP098;

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ADM69177
ID ADM6
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AC ADM6
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AC ADM6
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ADL97944
                                                                                                                               RESULT 1536
                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                Query Match
Best Local &
                                                                                                                                                                                                                                                                                                          rhabdomyosarcoma by in vitro detection, in a patient sample, of the expression of R-cadharin (I). The test sample, optionally treated, comprises a cell, collection of cells or tissue, and (I) expression is detected by measuring mRNA-specific probe, or (I) protein, using specific (RT)-PCR or with an mRNA-specific probe, or (I) protein, using specific antibodies, e.g. by Western blotting Primers for RT-PCR of (I) mRNA are ADL97944 and ADL97946 (sense), and ADL97945 (antisense). Note: The present sequence is the SEQ ID 1 as shown in the Sequence Listing. This sequence differs from the SEQ ID 1 shown in the disclosure (see
                                                                                                                                                                                                                                                                        Sequence 20 BP; 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Diagnosis of embryonal rhabdomyosarcoma, cadherin, also treatment with conjugates
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Cytostatic; diagnosis; embryonal rhabdomyosarcoma; R-cadherin; RT-PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               R-cadherin sense RT-PCR primer,
                         Plant gene polymorphism marker related primer, SEQ ID
                                                    03-JUN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 8; Page 22; 24pp; French.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gauthier RC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             17-SEP-2002;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Unidentified
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 Primer; variation mapping; mutation mapping; plant;
                                                                             ADM69177
                                                                                                      ADM69177 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention relates to a method for diagnosing embryonal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (CNRS ) CNRS
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                                                                                                                                                                                     3341 CGACCAGCCGCCCAAGGA 3358
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                                                                                                                                                                                                                      16;
                                                                                                                                                                     N
                                                                                                                                                                                                                                 Similarity
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                                                                                                                                                                   CGACCAGCCCCCCATGGA
                                                                                                                                                                                                                      Conservative
                                                   (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Charrasse
                                                                                                                                                                                                                                                                       A; 10 C; 4 G; 1 T; 0 U; 0 Other;
                                                                                                      DNA;
                                                                                                                                                                                                                                0.3%;
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                                                                                                                                                                                                                  Score 14.8; DB 1;
Pred. No. 9.9e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            by detecting expression of R-
targeted to R-cadherin or mus
                                                                                                                                                                                                                                             1; Length 20;
                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                     0
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X Z X S X Z
g
                                                     genetic polymorphism marker is detected are prepared; (d) an genetic polymorphism marker is detected are prepared; (d) an amplification reaction of the genomic DNA is carried out in the presence of the primers 1, 2 and 3 and the two kinds of the oligonucleotides; (e) the fluorescence intensity emitted from the resultant reactional product is detected and (f) the position on the genome of the mutation site is determined from the results of detection. The present sequence is a
                                                                                                                                                                                 The present invention relates to a primer set and method for mapping at least the variation/mutation part of a plant gene using a gene polymorphism marker. A mutation site of the plant gene is mapped by utilizing a genetic polymorphism marker as follows: (a) genomic DNA is prepared from a plant homozygously having a mutation to be an object of the mapping; (b) A forward primer 1 containing a base corresponding to the gene polymorphic maker of one ecotype plant, a forward primer 2 containing a base corresponding to the genetic polymorphism of the other ecotype plant and a reverse primer 3 based on the base sequence common with both the ecotype plants are prepared; (c) two kinds of oligonucleotides emitting fluorescence of different colors when the
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A primer set and method useful for mapping at least the variation/mutation part of a plant gene using a gene po
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (RIKA )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-FEB-2002; 2002JP-00025338
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           gene polymorphism marker;
                                        primer, used to illustrate the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2004-126231/13
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RIKAGAKU KENKYUSHO
SAI MEDIA KK.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MATSUI M.
NAKAZAWA M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQ ID NO 56; 120pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a gene polymorphism marker.
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Sequence 20 BP; 5 A; 4 C; 8 G; 2 T; 0 U; 1 Other;

Query Match
Best Local Similarity
Matches 16; Conserv 1173 GGAGAAGTCATCCGGACC 1190 Conservative 0.3%; 0; Score 14.8; Pred. No. 9 Mismatches 9.9e+02; 멂 1; Length 2 Indels 20 0; Gaps 0

밁 RESULT 1537 ADM80139 standard; DNA; 20 w 20

ADM80139;

δ

Human R-cadherin sense RT-PCR primer SEQ ID NO:1. 03-JUN-2004 ss; primer; RT-PCR; rhabdomyosarcoma; (first entry) R-cadherin; cytostatic

Homo sapiens

FR2844598-A1. 19-MAR-2004.

15-JUL-2003; 2003FR-00008623.

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RESULT 1533
ADK73800
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Best Local Similarity
              compound and composition are useful for treating a disease or condition associated with Navl.3, e.g. pain including but not limited to neuropathic pain, post-herpetic neuralgia, chronic pain, lower back pain,
                                                                                                                                                                                                                                                      New antisense compound targeted to a nucleic acid molecule encoding Navl.3, useful for useful for treating a disease or condition associated with Navl.3, e.g. pain, seizure disorder such as childhood seizure
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  oligonucleotide compounds inhibit the expression of human Akt-1. Also disclosed is a method of inducing cytotoxicity in a cancer cell, comprising introducing into the cell an oligonucleotide that hybridises to a human Akt-1 sequence comprising RX-0194, TX-0201, RX-0616, RX-0627, RX-0638. The new compounds may be used in pharmaceutical compositions to, e.g. prevent or delay infection, inflammation or tumour formation. These are useful for research and diagnostics. The backbone of each oligonucleotide was modified during
                                                                                       The present invention relates to an antisense compound targeted to a nucleic acid molecule encoding Nav1.3, where the antisense compound specifically hybridizes with and inhibits the expression of Nav1.3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Nav1.3; Analgesic; Nootropic; Neuroprotective; post-herpetic neuralgia; diabetic neuropathy; arthritic pain; migraine headache; infantile epilepsy; ataxia; ss.
  diabetic
                                                                                                                                                                                    Claim 4; SEQ ID NO 1134; 417pp;
                                                                                                                                                                                                                                                                                                                                                          WPI; 2004-203785/19.
                                                                                                                                                                                                                                                                                                                                                                                                         Roberds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                14-AUG-2002; 2002US-0403416P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO2004016754-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADK73800 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             26-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Chimeric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20-MAY-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             synthesis to introduce phosphorothioate linkages between nucleotides, except at the 3' and 5' ends, to obtain an antisense oligonucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  to a nucleic acid molecule encoding human Akt-1, where the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   inhibition
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            sequence represents an antisense oligonucleotide for the ion of expression of Akt-1 mRNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4
  neuropathy,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   phosphorothioate
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                                                                                                                                           invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                       ataxia.
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  trigeminal
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Pred. No. 9.9e
0; Mismatches
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  neuropathy,
                                                                                                                                                                                    English.
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pain,
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acute pain,
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3341 CGACCAGCCGCCCAAGGA 3358

Matches Query Match Best Local &

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Conservative

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Mismatches

Indels

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Gaps

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Similarity

0.3%;

Score 14.8; Pred. No. 9

96+02 DB

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Length

Sequence

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4 A;

10 C; 5 G; 1 T; 0 U; 0 Other;

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ADL97946
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Best Local
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                                    The present invention relates to a method for diagnosing embryonal rhabdomyosarcoma by in vitro detection, in a patient sample, of the expression of R-cadherin (I). The test sample, optionally treated, comprises a cell, collection of cells or tissue, and (I) expression is detected by measuring mRNA for (I), especially by reverse transcription (RT)-PCR or with an mRNA-specific probe, or (I) protein, using specific antibodies, e.g. by Western blotting. Primers for RT-PCR of (I) mRNA are DL97944 and ADL97946 (sense); and ADL97945 (antisense). Note: The present sequence is the SEQ ID 1 as shown in the disclosure. This sequence differs from the SEQ ID 1 shown in the Sequence Listing (see
                                                                                                                                                                                                                                      Diagnosis of embryonal ri
cadherin, also treatment
                                                                                                                                                                                                                                                                                                          Gauthier
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             pain from burns, migraine headache, cluster headache, mild-to-moderate headache; seizure disorder such as childhood seizure disorder, includir but not limited to neonatal or infantile epilepsy; or ataxia. The press sequence represents a chimeric phosphorothicate oligonucleotide with 2'MOE wings and a deoxy gap. Used during the antisense inhibition of human Navl.3 expression, the oligonucleotides are designed to target different regions of the human Navl.3 RNA.
                           ADL97944)
                                                                                                                                                                                          Claim 8; Page 16; 24pp; French.
                                                                                                                                                                                                                                                                              WPI; 2004-319465/30
                                                                                                                                                                                                                                                                                                                                                                 17-SEP-2002; 2002FR-00011525.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Cytostatic;
primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   R-cadherin sense
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5065
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                                                                                                                                                                                                                                                                                                          RC,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      diagnosis; embryonal rhabdomyosarcoma; R-cadherin;
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                                                                                                                                                                                                                                                                                                           Charrasse
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                                                                                                                                                                                                                                    rhabdomyosarcoma,
nt with conjugates
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Pred. No. 9.9e+02;
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                                                                                                                                                                                                                                    by detecting expression targeted to R-cadherin c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RT-PCR;
                                                                                                                                                                                                                                 or of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   including
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RESULT 1531
ADJ24531
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Best Local S
Matches 16
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New antisense oligonucleotide for modulating endothelial lipase expression, for diagnosing, preventing or treating e.g. dyslipidemia, high density lipoprotein or cardiovascular disorders.
                                                                                                                                                                                                                                                                                          Antilipaemic;
Human; Endoth
                                                                                                                                                                                                                                                                                                                                                                                                                  ADJ24531 standard; DNA; 20
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                                                                                                                                                                                        modified_base
                                                                                                                                                                                                                                   Synthetic.
                                                                                                                                                                                                                                                                                                                               Human endothelial lipase antisense oligonucleotide,
                                                                                                                                                                                                                                                                                                                                                            20-MAY-2004
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19-JUL-2002; 2002US-0397106P
                         18-JUL-2003; 2003WO-US022410
                                                                                 WO2004009541-A2
                                                                                                                                                                                                                                                  Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          for diagnostics, prophylaxis, or as research reagents or kits.
                                                                                                                                                                                                                                                                          paemic; Cardiovascular; Analgesic; Antianginal; Antisense therapy;
Endothelial Lipase; dyslipidaemia; high density lipoprotein; HDL;
vascular disorder; metabolic syndrome X; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         l Similarity
16; Conserv
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                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                     /mod_base= OTHER
/mode= "This oligonucleotide has a phosphorothioate
backbone and 2 - methyoxyethyl (2'-MOE) wings at the
and 3' ends, which are 4 nucleotides in length. Also
                                                                                                          cytidine residues
                                                                                                                                                                                                        Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                                                  BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
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RESULT 1532
ADL93298/c
ID ADL9329
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Matches 16
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New antisense oligonucleotide for modulating endothelial lipase expression, for diagnosing, preventing or treating e.g. dyslipidemia, low high density lipoprotein or cardiovascular disorders.
                                                                                                                  (REXA-)
(YOON/)
(MAOL/)
(LEEY/)
                                                                                                                                                                                                                                                                                                        Antimicrobial; antiinflammatory; cytostatic; Akt-1 inhibitor; antisense therapy; antisense oligonucleotide; RX-0194; TX-0201; RX-0616; RX-0627; RX-0628; RX-0638; RX-0638; human; Akt-1; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                               Yoon
                                                                                                                                                                                                   13-AUG-2003; 2003WO-US025250
                                                                                                                                                                                                                                                   WO2004016215-A2
                                                                                                                                                                                                                                                                         Homo sapiens
                                                                                                                                                                                                                                                                                                                                                          Human Akt-1 antisense oligonucleotide RX-0020, seq
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                                                                                                                                                                                                                                                                                                                                                                                                           ADL93298;
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                                                                                                                                                                            16-AUG-2002; 2002US-0404010P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1754 CGCCCCCCCCCCCAAGAA
                                                        2004-192062/18.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           16;
                                                                                                                                                                                                                                                                                             formation;
                                                                                                     YOON H.
MAO L.
LEE Y B.
AHN C H.
                                                                                                                                                     REXAMN CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20 BP; 7 A; 11 C; 1 G; 1 T; 0 U; 0 Other;
                                                                              Mao L,
                                                                                                                                                                                                                                                                                                                                                                                                                                   standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CACACCCCCTCCCAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQ ID NO 2929; 1007pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                               Lee
                                                                                                                                                                                                                                                                                                                                                                                                                                   DNA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.3%;
                                                                               YВ,
                                                                                                                                                                                                                                                                                                                                                                                                                                   20
                                                                               Ahn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1771
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 14.8; D
Pred. No. 9.9e
0; Mismatches
                                                                                 £
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9.9e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                             id
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
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New oligonucleotide compounds, e.g. RX-0194, TX-0201, RX-0616 and targeted to a nucleic acid molecule encoding human Akt-1, useful t preventing or delaying, e.g. infection, inflammation or tumor form

formation.

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RESULT 1529
ADJ24292
ID ADJ2429
XX ADJ2429
XC ADJ2429
XY 20-MAY-
XX Human &
XX Antilip
KW Human;
KW Human;
KW Human;
KW Cardiov
XX Homo sa
OS Synthet
XX FH Key
FT modifie
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention relates to antisense oligonucleotides (ADJ21603-ADJ25510) targeted to human Endothelial Lipase (EL) coding sequence (ADJ25510), where the antisense oligonucleotide specifically hybridises with and inhibits the expression of EL. The antisense oligonucleotides are useful for modulating the expression of endothelial lipase in cells or tissues to treat diseases associated with EL expression, such as dyslipidaemia, low high density lipoprotein (HDL), cardiovascular disorder or metabolic syndrome X. In addition, the oligonucleotides are used for diagnostics, prophylaxis, or as research reagents or kits.
                                                                                                                                                                                                    Antilipaemic; Cardiovascular; Analgesic; Antianginal; Antisense therapy; Human; Endothelial Lipase; dyslipidaemia; high density lipoprotein; HDL; cardiovascular disorder; metabolic syndrome X; ss.
                                                                                                                                Homo sapiens
Synthetic.
                                                 modified_base
                                                                                                                                                                                                                                                                                                        Human endothelial lipase antisense oligonucleotide,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADJ24292 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New antisense oligonucleotide for modulating endothelial lipase expression, for diagnosing, preventing or treating e.g. dyslipidemia, high density lipoprotein or cardiovascular disorders.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     19-JUL-2002; 2002US-0397106P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1754
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                l Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ID NO 1621; 1007pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2003WO-US022410
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/*tag=
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                                                                            Location/Qualifiers
/mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Location/Qualifiers
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Pred. No. 9.9e+02;
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                                                                                                                                                                                                                                                                                                           SEQ
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ADJ24333
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Best Local &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention relates to antisense oligonucleotides (ADJ21603-ADJ25510) targeted to human Endothelial Lipase (EL) coding sequence (ADJ25517), where the antisense oligonucleotide specifically hybridises with and inhibits the expression of EL. The antisense oligonucleotides are useful for modulating the expression of endothelial lipase in cells or tissues to treat diseases associated with EL expression, such as dyslipidaemia, low high density lipoprotein (HDL), cardiovascular disorder or metabolic syndrome X. In addition, the oligonucleotides are used for diagnostics, prophylaxis, or as research reagents or kits.
                                                                                                                                                      Synthetic.
                                                                                                                                                                                             Antilipaemic; Cardiovascular; Analgesic; Antianginal; Antisense therapy; Human; Endothelial Lipase; dyslipidaemia; high density lipoprotein; HDL; cardiovascular disorder; metabolic syndrome X; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                         modified_base
                                                                                                                                                                 Homo sapiens.
                                                                                                                                                                                                                                                  Human endothelial lipase antisense oligonucleotide, SEQ ID 2731
                                                                                                                                                                                                                                                                                 20-MAY-2004
                                                                                                                                                                                                                                                                                                           ADJ24333;
                                                                                                                                                                                                                                                                                                                                      ADJ24333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New antisense oligonucleotide for modulating endothelial expression, for diagnosing, preventing or treating e.g. chigh density lipoprotein or cardiovascular disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2004-132912/13
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 16;
                                                                                                                                                                                                                                                                                                                                                                                                           N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                      standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQ ID NO 2690; 1007pp;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BP; 7 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                 (first
                                    /mod_base= OTHER
/note= "This oligonucleotide has a phosphorothioate backbone and 2."methyoxyethyl (2'-MOE) wings at the and 3' ends, which are 4 nucleotides in length. Also
                                                                                                          Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /note= "This oligonucleotide has a phosphorothioate backbone and 2-'methyoxyethyl (2'-MOE) wings at the 5' and 3' ends, which are 4 nucleotides in length. Also a
                                                                                            /*tag= a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cytidine residues are 5-methylcytidines"
                                                                                                                                                                                                                                                                                                                                      DNA;
                                                                                                                                                                                                                                                                               entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     11 C; 1 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                      20
                                                                                                                                                                                                                                                                                                                                      ₽P
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Pred. No. 9.9e
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1;
.9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              0,
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WO2004009541-A2.

cytidine residues are 5-methylcytidines"

Also

ω a11

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RESULT 1527
ADJ60745
ID ADJ6074
XX ADJ6074
AC ADJ6074
XX
DT 06-MAY-
XX
DE Oligon
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                                                                                                                                                                                                                                    S
                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                        Query Match
Best Local :
                   Oligonucleotide associated
                                                                                                                                                                                                                                                                                                                                                                                                                                                               respiratory or lung disease, which involves administering to the airways of a subject an effective amount of an inhibitor. The oligonucleotide is useful for production of a medicament for the prevention and/or treatment of a respiratory or lung disease. The respiratory or lung disease is chosen from airway inflammation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present invention relates to an oligonucleotide anti-sense to e.g., initiation codon, coding region with 2-10 nucleotides of 5'-end and 3'-end of nucleic acid target comprising gene(s) chosen from e.g. end of nucleic acid target comprising gene(s) chosen from eigen interleukin (IL)-4 receptor, IL-5 receptor or salts of the oligonucleotide and optionally surfactant operatively linked to the oligonucleotide. The method is useful for preventing or treating a
                                                    06-MAY-2004
                                                                                                                                                                                                                                                                                                                                     Sequence 20 BP; 4 A; 6 C; 6 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                  chosen from airway inflammation, allergy(les), asthma, impeded respiration, cystic fibrosis (CF), chronic obstructive pulmonary diseases (COPD), allergic rhinitis (AR), acute respiratory distress syndrome (ARDS), pulmonary hypertension, lung inflammation, bronchitis, airway
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               airway inflammation; allergy; asthma; impeded respiration; cystic fibrosis; acute respiratory distress syndrome; pulmonary hypertension; lung inflammation; bronchitis; oligonucleotide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            disease e.g., asthma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Novel single or multiple target oligonucleotide anti-sense to e.g. initiation codons and introns of respiratory disease-relevant gene CCR1. RANTES, MCP4, useful for prophylaxis or treating respiratory
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Nyce JW, Tang
Shahabuddin S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO2004011613-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Oligonucleotide associated to Tryptase-a #63
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                                                                                                                    ADJ60745 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                      obstruction. The present sequence represents an oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 29-JUL-2002; 2002US-0399076P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  25-JUL-2003; 2003WO-US023509
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 interleukin; IL-4 receptor; IL-5 receptor; lung disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (EPIG-) EPIGENESIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2004-203534/19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     sapiens.
                                                                                                                                                                                                                                    900 ATCCCGCTGACTGCCAGC 917
                                                                                                                                                                                                                                                                      1 Similarity
16; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQ ID NO 1383; 85pp; English.
                                                                                                                                                                                                      ATCCTGCTGACTGGCAGC 19
                                                                                                                                                                                                                                                                        Conservative
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                                                    (first entry)
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, Lu H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sandrasagra A,
H, Cong H;
                                                                                                                                                                                                                                                                                   0.3%;
                                                                                                                    ВP
                   to PDE4A #28
                                                                                                                                                                                                                                                                     0;
                                                                                                                                                                                                                                                                                      Score 14.8;
Pred. No. 9
                                                                                                                                                                                                                                                                        Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Aguilar D,
                                                                                                                                                                                                                                                                                    9.9e+02
                                                                                                                                                                                                                                                                                                       DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Miller S;
                                                                                                                                                                                                                                                                                                      Length 20;
                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                      0
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                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                        of the
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8X444X8X4XXX

Human endothelial lipase antisense oligonucleotide,

SEQ ID 1621

Antisense therapy; v lipoprotein; HDL;

20-MAY-2004 (first entry)

Antilipaemic; Cardiovascular; Analgesic; Antianginal; Antisense the: Human; Endothelial Lipase; dyslipidaemia; high density lipoprotein; cardiovascular disorder; metabolic syndrome X; ss.

Homo sapiens

片

N

GAGAACTCATCCGGAGCC 19

RESULT 1528

ADJ23223 standard;

DNA;

20

S

1174 GAGAAGTCATCCGGACCC 1191

Query Match Best Local (Matches

16;

Conservative

0

Mismatches

Similarity

0.3%;

Score 14.8; DB 1 Pred. No. 9.9e+02

DB 1;

Length 20 Indels

0;

Gaps

0;

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The present invention relates to an oligonucleotide anti-sense to e.g., Cinitiation codon, coding region with 2-10 nucleotides of 5'-end and 3'-end of nucleic acid target comprising gene(s) chosen from e.g. Cinterleukin (IL)-4 receptor, IL-5 receptor or salts of the coligonucleotide and optionally surfactant operatively linked to the coligonucleotide. The method is useful for preventing or treating a respiratory or lung disease, which involves administering to the airways of a subject an effective amount of an inhibitor. The oligonucleotide is useful for production of a medicament for the prevention and/or treatment of a respiratory or lung disease. The respiratory or lung disease is chosen from airway inflammation, allergy(ies), asthma, impeded respiration, cystic fibrosis (F), chronic obstructive pulmonary diseases (COPD), allergic rhinitis (AR), acute respiratory distress syndrome (ARDS), pulmonary hypertension, lung inflammation, bronchitis, airway obstruction. The present sequence represents an oligonucleotide of the
  Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                              Novel single or multiple target oligonuclectide anti-sense to e.g. initiation codons and introns of respiratory disease-relevant genes e.g., CCR1, RANTES, MCP4, useful for prophylaxis or treating respiratory
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    interleukin; II-4 receptor; II-5 receptor; lung disease; airway inflammation; allergy; asthma; impeded respiration; cystic fibrosis; acute respiratory distress syndrome; pulmonary hypertension; lung inflammation; bronchitis; oligonucleotide;
                                                                                                                                                                                                                                                                                                                                                                         Claim 2; SEQ ID NO 1601; 85pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                              disease e.g., asthma.
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BP; 6 A; 7 C; 5 G; 2 T; 0 U; 0 Other;
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RESULT 1524
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                                                                                                                                                                                                                          Query Match
Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       interleukin, IL-4 receptor; IL-5 receptor; lung disease; airway inflammation; allergy; asthma; impeded respiration; cystic fibrosis; acute respiratory distress syndrome; pulmonary hypertension; lung inflammation; bronchitis; oligonucleotide;
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Shahabuddin
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                                                                                          CGAGTCCATCTCCCGGGC
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H, Cong H;
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Pred. No. 9.
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BXS

ADJ60527;

ADJ60527 standard; DNA;

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RESULT 1526 ADJ60527

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CCAGAATCACTGAAAGCA

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ADJ61591/c

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ADJ61591/c

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ADJ61591/c

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ADJ61591;

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ADJ61591;

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ADJ61591;

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AC

ADJ61591;

XX

O6-MAY-2004 (first entry)

XX

O1igonucleotide associated

XX

interleukin; IL-4 receptor

XX

interleukin; IL-4 receptor

XX

cystic fibrosis; acute rec

XX

Cystic fibrosis; acute rec

XX

OS

Homo sapiens.

XX

OS-FEB-2004.

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OS-FEB-2004.

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(EPIG-) EPIGENESIS PHARM 1

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Best Local S
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Novel single or multiple target oligonucleotide anti-sense to e.g. initiation codons and introns of respiratory disease-relevant genes e. CCR1, RANTES, MCP4, useful for prophylaxis or treating respiratory
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           airway inflammation; allergy; asthma; impeded respiration; cystic fibrosis; acute respiratory distress syndrome; pulmonary hypertension; lung inflammation; bronchitis; oligonucleotide;
                                                                                                                                                                                                                                                                                                    (COPD), allergic rhinitis (AR), acute respiratory distress syndrome (ARDS), pulmonary hypertension, lung inflammation, bronchitis, airway obstruction. The present sequence represents an oligonucleotide of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                29-JUL-2002; 2002US-0399076P
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                                                                                   l Similarity
16; Conserv
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CCAGCATCACTGAAATCA 3240
                                                                                      Conservative
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С;
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                                                                                                                   Score 14.8;
Pred. No. 9.
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ded respiration;
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RESULT 1521
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RESULT 1522
ADK97312
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                 Novel polynucleotide useful for PCR amplification along with two fragment from another set of sequences, or for detecting single nucleotide polymorphism in human gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                JP2003259875-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        human; single nucleotide polymorphism; SNP; ss; primer.
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                                                                                                                                                                                                                                                                                                             Sequence 20 BP; 6 A; 4 C; 8 G; 2 T; 0 U; 0 Other;
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         08-MAR-2002; 2002JP-00064373
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                                                                                         human; single nucleotide polymorphism; SNP; ss; primer.
                                                                                                             Primer of the
                                                                                                                                  06-MAY-2004
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                              16-SEP-2003.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               KAGAKU GIJUTSU SHINKO JIGYODAN.
                                                                                                                                                                                                                                                                                Similarity
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                                                                                                                                                                                                                              ATCTCTGTGGCTCTCACC
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                                                                                                                                                                                                                                                                     Conservative
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                                                                                                                                  (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           invention
                                                                                                             invention
                                                                                                                                                                           DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DNA;
                                                                                                                                  entry)
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                                                                                                             #3032
                                                                                                                                                                                                                                                                                                                                                                                             2627pp; Japanese.
                                                                                                                                                                           ВP
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                                                                                                                                                                                                                                                                    0;
                                                                                                                                                                                                                                                                               Score 14.8;
Pred. No. 9
                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                               .9e+02
                                                                                                                                                                                                                                                                                          DB 1;
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Query Match Best Local :

Sequence 20

BP; 4 A;

7 C; 5 G; 4 T; 0 U; 0 Other;

The present invention relates to a polynucleotide isolated from a gene and is useful for detecting a single nucleotide polymorphism human gene or for diagnosing of disease. The invention enables the detection of a single nucleotide polymorphism in a human gene. The present sequence represents a primer of the invention.

human in a

Matches

Local Similarity hes 16; Conserv

Conservative

<u>.</u>.

Mismatches

Indels

0,

Gaps

0,

88.9%;

0.3%;

Score 14.8; Pred. No. 9.

9.9e+02

DB 1;

Length 20;

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RESULT 1523
ADK98115/c
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention relates to a polynucleotide isolated from a human gene and is useful for detecting a single nucleotide polymorphism in a human gene or for diagnosing of disease. The invention enables the detection of a single nucleotide polymorphism in a human gene. The present sequence represents a primer of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Novel polynucleotide useful for PCR amplification along with two fragment from another set of sequences, or for detecting single nucleotide polymorphism in human gene.
                                                                                                                                                                                                                                                                              JP2003259875-A
                                                                                                                                                                                                                                                                                                    Synthetic
                                                                                                                                                                                                                                                                                                                           human; single
                                                                                                                                                                                                                                                                                                                                                                          06-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                 ADK98115;
                                                                                                                                                                                                                                                                                                                                                                                                                       ADK98115 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     08-MAR-2002; 2002JP-00064373
                                                                                         Claim 2; SEQ ID NO 7144; 2627pp; Japanese.
                                                                                                                nucleotide polymorphism
                                                                                                                        Novel polynucleotide useful for PCR amplification along with two DNA fragment from another set of sequences, or for detecting single
                                                                                                                                                              WPI; 2004-093977/10.
                                                                                                                                                                                                         08-MAR-2002; 2002JP-00064373.
                                                                                                                                                                                                                                 08-MAR-2002; 2002JP-00064373.
                                                                                                                                                                                                                                                        16-SEP-2003.
                                                                                                                                                                                                                                                                                                                                                  Primer of the
                                                                                                                                                                                   (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (KAGA-) KAGAKU GIJUTSU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3171 GACCCCATGAAGCAGTGG 3188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            16;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GACTCCATGAAGCATTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20 BP; 5 A; 4 C; 6
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                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                           nucleotide polymorphism;
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Pred. No. 9.9e
0; Mismatches
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                                                                                                                gene.
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                                                                                                                                                                                                                                                                                                                            SNP;
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                                                                                                                                                                                                                                                                                                                            primer
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ADH80295
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Best Local
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           induces senescence in a mammalian cell. The method comprises assaying the expression of cellular genes in the cell in the presence and absence of the compound. The method is useful for identifying and modulating expression of tumour senescence genes. These may be used in treating diseases or conditions related to abnormal cell proliferation or neoplastic cell growth, in assessing the efficacy of the treatment of the disease or condition, or in identifying compounds that induce senescence in mammalian cells or that inhibit senescence-associated induction of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to a compound comprising a sequence comprising 8-80 base pairs (bp) targeted to a nucleic acid encoding protein tyrosine phosphatase type IVA member 3 (PRL-3), that specifically hybridises with the nucleic acid encoding PRL-3 and inhibits expression of PRL-3, i.e. is an antisense oligonuclectide (AO). Also included are a composition comprising the compound and a carrier or diluent, inhibiting the expression of PRL-3 in cells or tissues, treating an animal having or suspected of having a disease or condition associated with PRL-3 and screening for an antisense compound. The antisense oligonuclectide is useful for preparing a composition for treating hyperproliferative disorder, particularly cancer ((e.g. colorectal cancer), diabetes, reduced glucose tolerance, insulin resistance and obesity. The present sequence is an antisense oligonuclectide targeting human PRL3.
cellular gene expression.
                                                                                                                                                                              Example 4; SEQ ID NO 19; 102pp; English.
                                                                                                                                                                                                             Identifying compounds that induce senescence in mammalian cells, useful for treating e.g. cancer, comprises assaying the expression of cellular genes in the cell in the presence and absence of the compound.
                                                                                                                                                                                                                                                                                 WPI; 2004-091347/09.
                                                                                                                                                                                                                                                                                                                                                                              03-JUL-2002; 2002US-0394121P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Cytostatic; human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            06-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADH80295
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADH80295 standard; DNA; 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     disorders, e.g.,
                                                                                                                                              The present invention relates to a method for identifying a compound that
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2987 CACAGAAACGCAGCTGCC
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                                                                                                                                                                                                                                                                                                            Chang
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            senescence; tumour; PCR; primer; ss; KIAA0166;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            primer,
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PCR primers ADH80277-ADH80400
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Matches 16
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Best Local
                                                                            This invention relates to a novel DNA molecule which comprises a DNA molecule made up of the following elements in a 5' to 3' direction: a first restriction endonuclease site; a T3 promoter site; at least one Ta; gene comprising at least 5 20mer Tag sequences; a Poly A site having at least 1 consecutive A residues; a second restriction endonuclease site which may be the same or different than the first restriction endonuclease site; or a T7 Promoter on the opposite strand as the T3 promoter. The invention may be useful in nucleic acid analysis, in particular to synthetic Tag genes useful as assay controls, in assay development, product development and validation and for quality control. The present sequence is that of a Tag oligonucleotide probe which may be used during the creation of the novel DNA molecule of the invention.
                                                                                                                                                                                                                                                                                               New DNA molecules made by annealing and extending overlapping 60mer oligonucleotides, useful in producing synthetic Tag genes useful as controls, in assay development, product development and for quality
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 assay development; product development; product validation; quality control; probe; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 amplify genes that are up- or downregulated in doxorubicin-induced accelerated senescence to identify senescence-inducing compounds.
                                                        Sequence
                                                                                                                                                                                                                                                             Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                Christians
                                                                                                                                                                                                                                                                                                                                                                                                                                    12-JUL-2002; 2002US-0395530P
                                                                                                                                                                                                                                                                                                                                                                                                                                                             14-JUL-2003; 2003WO-US021990.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            restriction endonuclease site; T3 promoter site; Tag gene; Poly A site; T7 Promoter; nucleic acid analysis; synthetic Tag gene; assay control;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Nucleic acid analysis-related Tag probe SeqID1596
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              06-MAY-2004
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                                                                                                                                                                                                                                                                                                                                                                                                          (AFFY-) AFFYMETRIX INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1451 GCAGCTCAAAGTCGACGT 1468
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                Similarity
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                                                          20
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                                                        BP;
                                                                                                                                                                                                                                                             SEQ ID
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                                                          7
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                0.3%;
                                                        6 C; 4
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                                                        G; 3
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                Score 14.8; DB 1
Pred. No. 9.9e+02
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Pred. No. 9.9e+02;
     Mismatches
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                                                          Other,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2;
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     Gape
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3287 CCTGCACGTGAAGCAGAC 3304

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RESULT 1517
ADI28288/c
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention describes an antisense compound, having a sequence comprising 8-50 bp targeted to a nucleic acid encoding Notchl. The compound specifically hybridises with the nucleic acid encoding Notchl and inhibits its expression. The compound has cytostatic and immunosuppressive properties and is suitable for used in gene therapy. The compound is useful for preparing a composition for treating a disease or condition associated with Notchl e.g., developmental, autoimmune or hyperproliferative disorders, such as cancer. This sequence represents an antisense oligonucleotide specific to human Notchl.
                                         New antisense oligonucleotide, comprising a sequence targeted to a nucleic acid encoding protein tyrosine phosphatase type IVA member 3 (PRL -3), useful for preparing a composition for treating hyperproliferative disorders, e.g., cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New antisense compound, having a sequence targeted to a nucleic acid encoding Notchl, useful for preparing a composition for treating a disease associated with Notchl e.g. autoimmune or hyperproliferative
                                                                                                                                                                                                                                                                                                                                                                                                                             US2003235911-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           diabetes; glucose tolerance; insulin resistance; hyperproliferative disorder; cytostatic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; antisense gene therapy; ss; PRL3; protein tyrosine phosphatase type IVA member 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human PRL3 antisense target region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         22-APR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADI28288;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADI28288 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 15;
    Example 16;
                                                                                                                                                                                                                                                                                                                                                                                 25-DEC
                                                                                                                                                       WPI; 2004-070585/07.
                                                                                                                                                                                                                                              (ISIS-) ISIS PHARM INC.
                                                                                                                                                                                                                                                                                       20-JUN-2002; 2002US-00177554
                                                                                                                                                                                                                                                                                                                                   20-JUN-2002; 2002US-00177554.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (KOLL/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2289 CTGCCTACCTGGGAGGCA 2306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2004-042171/04
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SX,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 KOLLER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTGCCTACCTGGAAGACA
                                                                                                                                                                                              Zhang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                such as cancer.
  SEQ ID NO 195;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BP; 6 A; 7 C; 4 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQ ID NO 20; 91pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Dobie KW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first
                                                                                                                                                                                                Ħ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CDNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20
77pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
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Pred. No. 9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ø
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           #32.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   J.9e+02;
2;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    colorectal cancer;
obesity;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
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The invention relates to

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compound comprising a sequence comprising

New antisense oligonucleotide, comprising a sequence targeted to a nucleic acid encoding protein tyrosine phosphatase type IVA member 3 (PI -3), useful for preparing a composition for treating hyperproliferative

(PRL

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RESULT 1518
ADI28152
ID ADI2815
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Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      disorder, particularly cancer (16.9). Occasional obesity. The present reduced glucose tolerance, insulin resistance and obesity. The present sequence is a Human PRL3 cDNA AO target region.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             base pairs (bp) targeted to a nucleic acid encoding protein tyrosine phosphatase type IVA member 3 (PRL-3), that specifically hybridises with the nucleic acid encoding PRL-3 and inhibits expression of PRL-3, i.e. is an antisense oligonucleotide (AO). Also included are a composition comprising the compound and a carrier or diluent, inhibiting the expression of PRL-3 in cells or tissues, treating an animal having or suspected of having a disease or condition associated with PRL-3 and screening for an antisense compound. The antisense oligonucleotide is useful for preparing a composition for treating hyperproliferative disorder, particularly cancer (e.g. colorectal cancer), diabetes,
                                                                                                                                                                                                                                                        modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; antisense gene therapy; ss; PRL3; protein tyrosine phosphatase type IVA member 3; colorectal cancer; diabetes; glucose tolerance; insulin resistance; obesity; hyperproliferative disorder; cytostatic.
                                                                                                                                                                                                                                                                                                               modified_base
                                                                                                                                                                                                                                                                                                                                                                                             modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Antisense oligonucleotide targeting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADI28152 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 20 BP; 2 A; 5 C; 9 G; 4 T; 0 U; 0 Other;
                            Dobie KW,
                                                                                        20-JUN-2002;
                                                                                                                    20-JUN-2002; 2002US-00177554.
                                                                                                                                                                                US2003235911-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               22-APR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADI 28152;
                                                                                                                                                    25-DEC-2003.
                                                          (ISIS-) ISIS PHARM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2987
2004-070585/07.
                                                                                                                                                                                                                                                                                                                                                                                                                                          sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CACAGAAACGCAGCTGCC 3004
                          Zhang H;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                        2002US-00177554
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                        /note= "
                                                                                                                                                                                                                                                                                                                               /mod_base= OTHER
/note= "Phosphorothicate
_methyl cytidines"
                                                                                                                                                                                                                                                                                                                                                                                                            Location/Qualifiers
                                                                                                                                                                                                                                          /*tag=
                                                                                                                                                                                                                                                                      mod_base= OTHER
note= "2'-metho
                                                                                                                                                                                                                                                                                                      *tag= a
                                                                                                                                                                                                            base= OTHER
== "2'-methoxyethyl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              88.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0.3%;
                                                                                                                                                                                                                                            a
                                                                                                                                                                                                                                                                        -methoxyethyl
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 14.8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               human PRL3 ISIS 217479
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                                                                                                                                                                                                               residues'
                                                                                                                                                                                                                                                                          residues"
                                                                                                                                                                                                                                                                                                                                                  backbone and all cytidines
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1;
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RESULT 1515
ADI14094/c
ID ADI1409
XX ADI1409
XX ADI1409
XX ADI1409
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YT MODIFIC
FT MODIFIC
FT MODIFIC
FT TOTAL
FT TO
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Best Local Similarity
Matches 16; Conserv
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     lung cancer. The polynucleotides and polypeptides defined in the specification, antisense polynucleotides targeting the polynucleotides, antibodies targeting either one of the polynucleotides or polypeptides, and compounds identified by the screening methods are useful for preventing or treating malignant neoplasia. The disease treated is preferably breast cancer. The present sequence is that of a PCR primer which was used in the exemplification of the invention.
                           New compounds, particularly antisense oligonucleotides targeted to a nucleic acid encoding PTP1B, useful for treating a disease/condition associated with PTP1B, such as cancer, diabetes or obesity.
                                                                                                                                                                                                                                                                                                                 18-JAN-2000; 2000US-00487368
31-JUL-2000; 2000US-00629644
14-MAY-2001; 2001US-00854883
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        rat; 88; antisense; PTP1B; protein phosphatase 1B; PTPN1; phosphorothioate backbone; hyperproliferative condition; cance cytostatic; antidiabetic; anorectic; type 2 diabetes; obesity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                          07-FEB-2003; 2003US-00360510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              27-NOV-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US2003220282-A1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Antisense DNA oligo to target rat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          22-APR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADI14094 standard; DNA;
                                                                                                                                                                                                                                                                   (ISIS-) ISIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3814 GCCAAGGGAAGCCCAAGA 3831
                                                                                                                                    2004-051719/05
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                                                                                                                                                                                       SM;
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                                                                                                                                                                                                                Cowsert LM,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                   PHARM INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /mod_base= OTHER
/note= "OTHER= 2' methoxyethyl nucleotides.
nucleobases are 5' methylcytidine."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      nucleobases are 16. .20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /mod_base= OTHER
/mod_base= OTHER= 2' methoxyethyl nucleotides.
/mod_obases are 5' methylcytidine."
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'note= "OTHER= phosphorothioate backbone"
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Pred. No. 9
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                                                                                                                                                                                                                  Monia
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                                                                                                                                                                                                                BP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 1;
                                                                                                                                                                                                                  Butler MM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length
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                                                                                                                                                                                                                  Mckay
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                                                                                                                                                                                                  CC This invention relates to novel compositions and methods for modulating the expression of PTP1B (also known as protein phosphatase 1B and PTPNI). C Specifically, it refers to antisense compounds that can target and c hybridise with a nucleic acid molecule encoding PTP1B, as well as splice covariants thereof and inhibit expression accordingly. PTP1B is a tyrosine c phosphatase that plays an essential regulatory role in signalling c mediated by the insulin receptor and as such is useful for treating c diseases such as type 2 diabetes and obesity. Furthermore, PTP1B can c suppress transformation of oncogenic genes, such that compositions of this invention can also be used to treat hyperproliferative conditions of including cancer. Accordingly, these compounds can be described as having c cytostatic, antidiabetic and anorectic activities. This oligonucleotide sequence is an antisense DNA oligo that targets rat PTP1B DNA, and which has a phosphorothioate backbone and 2 -O-methoxyethyl wings, used in an order compounds.
                                                                                    Matches
                                                                                                   Query Match
Best Local
                                                                                                                                                                   Sequence 20 BP; 4 A; 6 C; 7 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 3;
                                          1264 TTCCTGGTGAGGCCAATC
                                                                                    16;
18
                                                                                                       Similarity
TTCCTGGTGAGGCCCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQ ID NO 347; 143pp; English
                                                                                    Conservative
                                                                                                   0.3%;
                                          1281
                                                                                 0
                                                                               Score 14.8; DB 1; Pred. No. 9.9e+02; 0; Mismatches
                                                                                                                           DB 1;
                                                                                    N
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                                                                                                                         Length
                                                                                    Indels
                                                                                    0
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RESULT 1516
ADH74841
                                                                                                                                                                                                                                                                            antisense compound; antisense technology; Notch1; cytostatic; immunosuppressive; gene therapy; developmental disorder; autoimmune disorder; hyperproliferative disorder; cancer; hum
                                                                                                                                                                                                                                                   Homo
                                                                                                                                                                                                                                                                      88
                                                                                                                                 modified_base
                                                                                                                                                                           modified_base
                                                                                                                                                                                                                      modified_base
                                                                                                                                                                                                                                                                                                                 Human
                          30-MAY-2002; 2002US-00160497
                                           21-JAN-2003; 2003US-00348750
                                                                              US2003225019-A1.
                                                                                                                                                                                                                                                                                                                                  22-APR-2004
                                                                                                                                                                                                                                                                                                                                                    ADH74841
                                                                                                                                                                                                                                                                                                                                                                    ADH74841 standard; DNA; 20
(FREI/) FREIER S N
(DOBI/) DOBIE K W.
                                                                                                                                                                                                                                                   sapiens
                                                                                                                                                                                                                                                                                                                 Not ch1
                                                                                                                                                                                                                                                                                                                antisense oligonucleotide seq
                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                         Location/Qualifiers
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/mod_base= OTHER
/note= "OTHER= 2
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                                                                                                                                                                                      R= Phosphorothioate backbone,
methylcytidines"
                                                                                                         2'-O-methyoayethyl substituted
                                                                                                                                                   2'-O-methyoayethyl
                                                                                                                                                                                                                                                                                                                 id
                                                                                                                                                    substituted
                                                                                                                                                                                                                                                                              cancer; human;
                                                                                                                                                                                               all cytidine
                                                                                                         nucleoside
                                                                                                                                                     nucleoside
                                                                                                                                                                                                                                                                               notch1;
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RESULT 1513
ADG88864
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention describes a GAD65 polypeptide comprising an E517P cm that inn. The polypeptide is characterised by decreased specific binding combined to an antibody selected from GAD6, MICA-1, MICA-3, MICA-4 and MICA-6, CC where the decreased binding is relative to a corresponding GAD65 complete the decreased binding is relative to a corresponding GAD65 complete the presence of or risk of type 1 diabetes in a subject; CC for detecting the presence of or risk of type 1 diabetes in a subject; CC (2) an isolated mucleic acid selected from: (a) mucleic acids which encode the card Ian5(1yp) polypeptide; or (c) full length complements of the nucleic acids of (a) or (b); (3) an antibody that: (a) specifically binds to rat [an5(1yp) polypeptide; or (c) full length complements of the nucleic acids of (a) or (b); (3) an antibody is not immunologically cross-creactive with human Ian5 or mouse Ian5 polypeptide; or (b) specifically binds to rat [an5(1yp) polypeptide, where the antibody is not immunologically cross-reactive with rat Ian5(1y), human Ian5 or mouse Ian5 (1yp) polypeptide; where the following composition of the polypeptide; or (b) specifically cross-creative with rat Ian5(1y), human Ian5 or mouse Ian5 (c) polypeptide; (d) an expression construct comprising the following composition of the present comprising the composition construct described above; (a) a vector comprising the composition end antended for producing an Ian5 polypeptide; (c) an isolated host cell transformed or transfected with the composition end methods for diabetes and (11) a method for identifying agonists or antagonists of an Ian5 (c) methods for developing gene therapy for type 1 diabetes, and (11) a method for identifying a genetic mutation that correlates with type 1 (alabetes, GAD65 has antidabetic activity, and can be used in gene therapy for type 1 diabetes. The methods may also be constituted and the present invention. The present constitution of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
Freier SM,
                                                                                                                                                                                                                                                                          04-DEC-2003
                                                                                                                                                                                                                                                                                                                                          US2003224513-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ss; human; Notch1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human Notch1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     11-MAR-2004
                                                                                                                               30-MAY-2002;
                                                                                                                                                                                                   30-MAY-2002; 2002US-00160497.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 hyperproliferative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADG88864 standard; DNA;
                                                            (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                          sapiens.
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Dobie KW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BP; 1 A; 9 C; 2 G; 8 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              antisense oligonucleotide ISIS 226824.
                                                                                                                                   2002US-00160497
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          autoimmune disorder; aberrant apoptosis; disorder; cancer; antisense.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   88.9%;
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Pred. No. 9.
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non-small cell

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RESULT 1514
ADH13454/C
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XX Maligna
KW Maligna
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XX PR 13-FEB-
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XX PR 13-FEB-
XX PR 13-FEB-
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Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
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                                                                                           This invention relates to a novel method for the prediction, diagnosis, or prognosis of malignant neoplasia by the detection of at least two markers. The invention may also be useful for the development of cytostatic compounds through the regulation of the expression of a gene or activity of a protein associated with malignant neoplasia. The method
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   gastric cancer;
bladder cancer;
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is useful for prediction, diagnosis or prognosis of malignant neoplasia such as breast cancer, ovarian cancer, gastric cancer, colon cancer, oesophageal cancer, mesenchymal cancer, bladder cancer or non-small celi
                                                                                                                                                                                                                                                                                                                                                         Predicting, diagnosing or prognosing malignant neoplasia by detecting least two markers, where the markers are genes from one or more chromosomal regions altered in malignant neoplasia,.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   malignant neoplasia; cytostatic; breast cancer; ovarian cancer; gastric cancer; colon cancer; oesophageal cancer; mesenchymal cancer; bladder cancer; non-small cell lung cancer; human; PCR; primer; ss.
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                                                                                                                                                                                                                                                                                               Disclosure; SEQ ID NO 303; 267pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          21-MAY-2002;
13-FEB-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            09-MAY-2003; 2003EP-00010447.
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2003EP-00003112
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Pred. No. 9.
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Best Local (
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                                                                                                                                                                                                                                                         Nyce JW,
Miller S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      reduce the amount of target polypeptide present in the lungs. The pulmonary obstruction, and/or bronchoconstriction and/or lung inflammation, allergies and/or surfactant hypoproduction are associated with a disease or condition such as pulmonary vasoconstriction, inflammation, allergies, asthma, impeded respiration, respiratory distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary hypertension, emplysema, chronic obstructive pulmonary disease, pulmonary transplantation rejection, pulmonary infections, bronchitis or cancer. The reduced adenosine content of the anti-sense oligos corresponding to thymidines present in the target RNA serves to prevent the breakdown of the oligonucleotides into products that free adenosine into the system e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; antisense; bronchoconstriction; allergy; hyposecretion; pain; respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antiinflammatory; antiasthmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory distress syndrome; allergic rhinitis; pulmonary hyportension; emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;
                                                                                                                                                    Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targe nucleic acids associated with lung airway or lung dysfunction,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                 reducing
                                    bronchoconstriction,
                                                  comprising oligonucleotides,
                                                                                                   Claim 15; SEQ ID NO 684; 763pp; English.
                                                                                                                                    bronchodilating agent.
                                                                                                                                                                                                                         WPI; 2003-093058/08.
                                                                                                                                                                                                                                                                                                                                           24-APR-2001; 2001US-0286036P
                                                                                                                                                                                                                                                                                                                                                                            23-APR-2002; 2002WO-US013143
                                                                                                                                                                                                                                                                                                                                                                                                               31-OCT-2002.
                                                                                                                                                                                                                                                                                                                                                                                                                                              WO200285309-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                pulmonary transplantation rejection;
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                                                                     invention describes
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                                                                                                                                                                                                                                                         Sandrasagra A,
L, Shahabuddin
pribes a novel composition (a) a first active agent, lectides, effective for alleviating leaving and present inflammation, allergies and sensitivity, levels of adenosine (A) or (A) receptors, or hyposecretion, when administered to a mammal. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0.3%;
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Pred. No. 9
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                                                                                                                                                                                                                                                         Katz
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                                                                                                                                                                                                                                                                       Aguilar
                                                                                                                                                                       targeted to
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cc oligonucleotides are derived from a gene encoding or regulating compression of a target polypeptide associated with lung airway or lung composition or cancer and can be anti-sense to the corresponding mRNA. CC The invention also describes a kit, that comprises: (a) a delivery comprise, in separate containers, (b) the oligonucleotides, (c) instructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, an estaing a respiratory, lung or malignant disease. The administered composition comprises oligo and is administered to reduce the production or availability, or to increase the degradation of the target mRNA or to reduce the amount of target polypeptide present in the lungs. The composition, allergies and/or surfactant hypoproduction are associated with a disease or condition such as pulmonary vascoonstriction, comprises syndrome, pain, cystic fibrosis, allergier, asthma, impeded respiration, respiratory hyperrension, emphysema, chronic obstructive pulmonary disease, pulmonary transplantation rejection, pulmonary infections, bronchitis or cancer. The reduced adenosine content of the anti-sense oligos corresponding to the oligonucleotides into products that free adenosine into the system c.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to prevent any unwanted effects due to it
RESULT 1512
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Best Local &
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Rutledge
                                                                                                                                                                                                                                                                                                                                                                        GAD65; type 1 diabetes; rat; Ian5(+); Ian5(lyp); Ian5; antidiabetic;
gene therapy; diabetes; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                          Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                     Ian5 gene
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 20
                                                                                         WPI; 2004-053464/05
                                                                                                                                                                    (UNIW ) UNIV WASHINGTON
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                                                                                                                                                                                                                                29-MAY-2003; 2003WO-US017206
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                                                                                                                                       Macmurray
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Pred. No. 9.9e+02;
0; Mismatches 2
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                                                                                                                                     Ettinger RA,
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                                                                                                                                       Moralejo
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Example 2; SEQ ID NO 32; 87pp; English

New GAD65 polypeptide comprising the presence of or risk of developments.

developing

type

an

E517P mutation, useful for detecting ng type 1 diabetes or a related

disorder in human subjects.

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CC surfactant depletion or hyposecretion, when administered to a mammal. The CC expression of a target polypeptide associated with lung airway or lung CC dysfunction or cancer and can be anti-sense to the corresponding mRNA. CC The invention also describes a kit, that comprises: (a) a delivery CC device, in separate containers, (b) the oligonucleotides, (c) instructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, analgesic, hypotensive, immunosuppressive and cytostatic activity, is a beta-adrenergic agonist. The composition is useful for preventing or treating a respiratory, lung or malignant disease. The administered composition comprises oligo and is administered to reduce the production or availability, or to increase the degradation of the target mRNA or to reduce the amount of target polypeptide present in the lungs. The pulmonary obstruction, and/or bronchoconstriction and/or lung confilammation, allergies and/or surfactant hypoproduction are associated with a disease or condition such as pulmonary vasoconstriction, confilammation, emphysema, chronic obstructive pulmonary disease, pulmonary hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary confilament of the anti-sense oligos corresponding to the oligonucleotides into products that free adenosine into the system confilation, heart, kidney, etc, tissue environment and thereby, to
               RESULT 1509
ABD21288/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; antisense; bronchoconstriction; allergy; hyposecretion; pain; respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antiinflammatory; antiasthmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory distress syndrome; allergic rhinitis; pulmonary hypertension; emphysema; chronic obstructive pulmonary disease; cancer; bronchitis; pulmonary transplantation rejection; ss; primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             comprising oligonucleotides, effective for alleviating bronchoconstriction, respiratory tract inflammation, allerg reducing adenosine sensitivity, levels of adenosine (A) or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pharmaceutical composition for treating asthma, has antisense oligonuclectide containing less percentage of adenosine, targeted nucleic acids associated with lung airway or lung dysfunction, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human transglutaminase-derived oligo SEQ ID 300
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 15; SEQ ID NO 300;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                bronchodilating agent
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Tang L,
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L, Shahabuddin S;
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(A) or (A) receptors,
Tammal. The
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CC bring ourgonucleotides, effective for alleviating creducing adenosine sensitivity, levels of adenosine (A) or (A) receptors, construction or hyposecretion, when administered to a mammal. The colligonucleotides are derived from a gene encoding or regulating certification or hyposecretion, when administered to a mammal. The oligonucleotides are derived from a gene encoding or regulating certification or cancer and can be anti-sense to the corresponding mRNA. CC The invention also describes a kit, that comprises: (a) a delivery constructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, analyses; (b) the oligonucleotides, (c) beta-adrenergic agonist. The composition is useful for preventing or treating a respiratory, lung or malignant disease. The administered corravailability, or to increase the degradation of the production of availability, or to increase the degradation of the production of the composition is setful for preventing or treating a respiratory.
                      RESULT 1510
ABD31893
ID ABD3189
XX ABD3189
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Best Local Similarity
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Miller S,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted to nucleic acids associated with lung airway or lung dysfunction, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             respiratory distress syndrome; allergic rhinitis; pulmonary hypertension; emphysema; chronic obstructive pulmonary disease; cancer; bronchitis; pulmonary transplantation rejection; ss; primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antinflammatory; antisthmatic; surfactant hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction;
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, Tang L,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ID NO 14104; 763pp;
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L, Shahabuddin S;
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Pred. No. 9.
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EXEXEXEX
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ABD25882
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                                                                                                                                                                                                                                                                                                                       Query Match
Best Local :
                                                                                                                                                                                                                                                                                                        Matches
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Miller
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted nucleic acids associated with lung airway or lung dysfunction, and
Human; antisense; bronchoconstriction; allergy; hyposecretion; pain;
                                  AI654215-derived oligonucleotide SEQ ID 4894.
                                                                        29-JUL-2004
                                                                                                                                              ABD25882 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                          Sequence
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Shahabuddin
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Pred. No. 9.
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beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory distress syndrome; allergic rhinitis; pulmonary hypertension; emphysema; chronic obstructive pulmonary disease; cancer; bronchitis; pulmonary transplantation rejection; ss; primer.
                                                                                                                                                                         surfactant depletion; antiallergic; antiinflammatory; antiasthmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibros
                                                                                                                                                                                                                                                              respiratory tract inflammation; adenosine
                                                                                                                                                                                                                                                                  sensitivity; lung;
                                                                                                                                                                              cystic fibrosis;
                                                                                                                                                                                                                                                                  cancer;
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Homo sapiens

WO200285309-A2

23-APR-2002; 2002WO-US013143.

24-APR-2001; 2001US-0286036P

(EPIG-) EPIGENESIS PHARM INC

Nyce Miller а JW, ч S, Li Y, Tang Ĺ Sandrasagra A, L, Shahabuddin Katz S; 'n Pabalan 'n Aguilar D;

WPI; 2003-093058/08

Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted to nucleic acids associated with lung airway or lung dysfunction, and bronchodilating agent.

SEQ ID NO 4894; 763pp; English.

CC comprising oligonucleotides, effective for alleviating composition, respiratory tract inflammation, allergies and CC reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors, CC surfactant depletion or hyposecretion, when administered to a mammal. The coligonucleotides are derived from a gene encoding or regulating CC expression of a target polypeptide associated with lung airway or lung CC dysfunction or cancer and can be anti-sense to the corresponding mRNA. CC The invention also describes a kit, that comprises: (a) a delivery CC device, in separate containers, (b) the oligonucleotides, (c) instructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, CC analgesic, hypotensive, immunosuppressive and cytostatic activity, is a beta-adrenergic agonist. The composition is useful for preventing or respiratory, lung or malignant disease. The administered composition comprises oligo and is administered to reduce the production or availability, or to increase the degradation of the target mRNA or to reduce the amount of target polypeptide present in the lungs. The pulmonary obstruction, and/or burdactonstriction and/or lung pulmonary obstruction, and/or burdactonstriction and/or lung inflammation, allergies, asthma, impeded respiration, respiratory complete systems, content of the anti-sense oligos corresponding to the reduced adenosine content of the anti-sense oligos corresponding to the coligonucleotides into products that free adenosine into the system of the street and products that free adenosine into the system of the coligonucleotides into products that free adenosine into the system of the sure environment and thereby, to prevent This invention describes a novel composition any unwanted effects due ç (a) a first active agent,

Sequence 20 ₽P; v Α, 4. Ç 7 <u>ი</u> 4 7 0 u; 0 Other;

밁 Ś Query Match Best Local S Matches 16 16; Similarity ACCTGGAACATGGGTAAC Conservative 0.3%; 1754 19 0 Pred. Score 14.8; Mismatches No. 9.9e+02 멂 1, Length Indels <u>.</u>. Gaps

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RESULT 1506
ABD31679
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Best Local S
Matches 16
   Nyce JW,
Miller S,
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respiratory tract inflammation; adenosine sensitivity; lung; cancer;
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                                                                                                                                                                                                                                                                  23-APR-2002; 2002WO-US013143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        pulmonary transplantation rejection;
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Li Y,
Tang
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                                           Sandrasagra A,
                                                                                                                     PHARM
       Shahabuddin
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Pred. No. 9.9e+02;
       s
                                           Katz E,
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CC expression of a target polypeptide associated with lung airway or lung dysfunction or cancer and can be anti-sense to the corresponding mRNA. CC The invention also describes a kit, that comprises: (a) a delivery construction also describes a kit, that comprises: (a) a delivery construction also describes a kit, that comprises: (a) a delivery construction also describes a kit, that comprises: (a) a delivery construction also acarrier and for use of the kit. The composition of the invention has antiallergic, antiinflammacory, antiasthmatic, an estating a respiratory, lung or malignant disease. The administered composition comprises oligo and is administered to reduce the production or availability, or to increase the degradation of the target mRNA or to reduce the amount of target polypeptide present in the lungs. The composition, allergies and/or surfactant hypotroduction are associated with a disease or condition such as pulmonary vasoconstriction, are distress syndrome, pain, cystic fibrosis, allergie rininitis, pulmonary transplantation rejection, pulmonary infections, bronchitis or cancer. The reduced adenosine content of the anti-sense oligos corresponding to thymidines present in the target RNA serves to prevent the breakdown of the oligonucleotides into products that free adenosine into the system c.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to prevent any unwanted effects due to it
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       comprising oligonucleotides, effective for alleviating bronchoconstriction, respiratory tract inflammation, allergies and reducing adenosine sensitivity, levels of adenosine (A) or (A) receptor surfactant depletion or hyposecretion, when administered to a mammal.
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20 BP; 4 A; 6 C; 6 G; 4 T; 0 U; 0 Other;

Query Match Best Local S Matches 16 900 ATCCCGCTGACTGCCAGC 917 Similarity Conservative 0.3%; <u>.</u> Score 14.8; DB 1; Pred. No. 9.9e+02; Mismatches Length 20; Indels 0 Gaps 0

8 19

RESULT 1507 ABD32340/c ID ABD3234 ABD32340 standard; DNA;

ABD32340;

29-JUL-2004

(first entry)

Human PDE4C-derived oligonucleotide SEQ ID 14551.

Human; antisense; bronchoconstriction; allergy; hyposecretion; pain; respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antiinflammatory; antiasthmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory distress syndrome; allergic rhinitis; pulmonary hypertension; emphysema; chronic obstructive pulmonary disease; cancer; bronchitis; pulmonary transplantation

Homo sapiens.

WO200285309-A2

WPI; 2003-093058/08

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RESULT 1504
ABD21187/C
ID ABD211887/C
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XX Human;
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KW respira
KW respira
KW emphyse
KW pulmona
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CC Compring
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CC C
CC comprising oligonuclectides, effective for alleviating CC pronchoconstriction, respiratory tract inflammation, allergies and CC reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors, considered in the process of the invention of a target polypeptide associated with lung airway or lung CC dysfunction or cancer and can be anti-sense to the corresponding mRNA. CC The invention also describes a kit, that comprises: (a) a delivery CC instructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiastbmatic, analgesic, hypotensive, immunosuppressive and cytostatic activity, is a CC treating a respiratory, lung or malignant disease. The administered CC composition comprises oligo and is administered to reduce the producrion
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Matches
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prevent any
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 15; SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             bronchodilating agent
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, Tang L,
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L, Shahabuddin
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Best Local
                                                                                                      Pharmaceutical composition for oligonucleotide containing les
                                                                                                                                                                                                                                                                                                                                                                                                              respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antianflammatory; antiasthmatic; analgesic; hypotensive; immunosuppressive; cytostatatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction respiratory distress syndrome; allergic rhinitis; pulmonary hypertension emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       reduce the amount of target polypeptide present in the lungs. The pulmonary obstruction, and/or bronchoconstriction and/or lung inflammation, allergies and/or surfactant hypoproduction are associated with a disease or condition such as pulmonary vasoconstriction, allergies, asthma, impeded respiration, respiratory distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary transplantation rejection, pulmonary infections, bronchitis or cancer. The reduced adenosine content of the anti-sense oligos corresponding to thymidines present in the target RNA serves to prevent the breakdown of the oligonucleotides into products that free adenosine into the system e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to prevent any unwanted effects due to it
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                                                                                            bronchodilating
                                                                                                                                                                                           Miller
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                                                                                                                                                                                                                                                                                                                                                                                                     pulmonary transplantation rejection; ss; primer.
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L, Shahabuddin
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                                                                                                         for treating asthma, has antisense
less percentage of adenosine, targeted
ith lung airway or lung dysfunction, and
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tis; pulmonary hypertension;
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This invention describes a novel composition (a) a fir comprising oligonucleotides, effective for alleviating bronchoconstriction, respiratory tract inflammation, a reducing adenosine sensitivity, levels of adenosine (A

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3416;

763pp;

English

a first active agent,

(A allergies

B

receptors,

and

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Nyce JW,
Miller S
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                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
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Li Y,
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     Sandrasagra A,
Shahabuddin
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                           Katz E,
                           Pabalan J, Aguilar
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Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targuncleic acids associated with lung airway or lung dysfunction Pharmaceutical composition oligonucleotide containing bronchodilating agent. e of adenosine, targe or lung dysfunction, adenosine, targeted ç

WPI; 2003-093058/08.

Claim 15; SEQ ID NO 4183; 763pp; English.

CC expression of a target polypeptide associated with lung airway or lung conversion or cancer and can be anti-sense to the corresponding mRNA. CC The invention also describes a kit, that comprises: (a) a delivery CC device, in separate containers, (b) the oligonucleotides, (c) instructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, CC analgesic, hypotensive, immunosuppressive and cytostatic activity, is a beta-adrenergic agonist. The composition is useful for preventing or CC treating a respiratory, lung or malignant disease. The administered composition comprises oligo and is administered to reduce the production or availability, or to increase the degradation of the target mRNA or to CC reduce the amount of target polypeptide present in the lungs. The CC pulmonary obstruction, and/or bronchoconstriction and/or lung confidence the production, and/or bronchoconstriction and/or lung confidence the associated confidence the production such as guimonary vascoconstriction, respiratory confidence or condition such as guimonary vascoconstriction, respiratory confidence membry sens, chronic obstructive pulmonary disease, pulmonary confidence membry disease, chronic obstructive, pulmonary disease, pulmonary confidence present in the target RNA serves to prevent the breakdown of the many brain, heart, kidney, etc, tissue environment and thereby, to prevent any unwanted effects due to it comprising oligonucleotides, effective for alleviating bronchoconstriction, respiratory tract inflammation, allergies and reducing adenosine sensitivity, levels of adenosine (A) or (A) recusing adenosine sensitivity, levels of adenosine (A) or (A) recusing adenosine sensitivity, when administered to a mamma surfactant depletion or hyposecretion, when administered to a mamma oligonucleotides are derived from a gene encoding or regulating describes a novel composition (a) a first active mammal. receptors, mammal. The

Sequence 20 BP; N ₽. 4 Ç φ <u>ဂ</u> s .. T 0 Ģ 0 Other;

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Query Match
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l Similarity
16; Conserv
Conservative
        0.3%;
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        Score 14.8;
Pred. No. 9
Mismatches
        9.9e+02;
                 DB 1;
                Length 20,
Indels
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RESULT 1503 ABD21174 ABD21174; ABD21174 standard; 29-JUL-2004 (first entry) DNA; 20

Human transglutaminase-derived

oligo SEQ

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186.

respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antiinflammatory; antiasthmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory distress syndrome; allergic rhinitis; pulmonary hypertension; Human; antisense; pulmonary transplantation emphysema; chronic obstructive pulmonary disease; cancer; bronchoconstriction; rejection; ss; primer allergy; hyposecretion; pain;

Homo sapiens.

WO200285309-A2

23-APR-2002; 2002WO-US013143

24-APR-2001; 2001US-0286036P

(EPIG-) EPIGENESIS PHARM INC

Nyce JW, Miller S S Li Y, Tang ŗ Sandrasagra A, L, Shahabuddin Katz S; ĸ Pabalan J, Aguilar ä

WPI; 2003-093058/08

Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted to nucleic acids associated with lung airway or lung dysfunction, and bronchodilating agent.

Claim 15; SEQ ID NO 186; 763pp; English

CC comprising oligonucleotides, effective for alleviating CC comprising oligonucleotides, effective for alleviating CC comprising oligonucleotides, effective for alleviating allergies and CC reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors, cc surfactant depletion or hyposecretion, when administered to a mammal. The CO ligonucleotides are derived from a gene encoding or regulating cc expression of a target polypeptide associated with lung airway or lung cc expression of a target polypeptide associated with lung airway or lung cc expression of a carget polypeptide associated with lung airway or lung cc expression of a carget polypeptide associated with lung airway or lung cc expression of a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, cc analgesic, hypotensive, immunosuppressive and cytostatic activity, is a beta-adrenergic agonist. The composition is useful for preventing or cc treating a respiratory, lung or malignant disease. The administered composition comprises oligo and is administered to reduce the production cc reduce the amount of target polypeptide present in the lungs. The cc pulmonary obstruction, and/or bordonstriction and/or lung cristian allergies and/or surfactant hypoproduction are associated with a disease or condition such as pulmonary vasoconstriction. Tespiratory clinthammation, allergies, asthma, impeded respirator, respiratory customated surfaces syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary transplantation rejection, pulmonary obstructive pulmonary disease, pulmonary conditions obstructive pulmonary of cancer.

CC The reduced adenosine content of the anti-sense oligos corresponding to The reduced adenosine content of the anti-sense oligos corresponding thymidines present in the target RNA serves to prevent the breakdown the oligonucleotides into products that free adenosine into the syste This invention describes a novel composition (a) a first active agent, of of

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RESULT 1501
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                                                   Homo sapiens.
                                                                                                    pulmonary transplantation rejection;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targe nucleic acids associated with lung airway or lung dysfunction,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 15; SEQ ID NO 1958; 763pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               comprising oligonucleotides,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 14.8;
Pred. No. 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             effective for alleviating
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. 9.9e+02;
2;
                                                                                                    primer.
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                                                                                                                            pulmonary hypertension;
cancer; bronchitis;
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X S X P X S X U

ABD25171;

AI051839-derived oligonucleotide

SEQ ID 4183

29-JUL-2004 (first entry)

RESULT 1502 ABD25171/c

ABD25171 standard; DNA; 20

ВP

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CTGTCCCGGGACCTGCTG

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                                                                                 Query Match
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                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    This invention describes a novel composition
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  4141 CTCTCCCGGGACCTCCTG 4158
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16; Conserv
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Pred. No. 9
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ACC82907
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; antisense; thyroid hormone receptor interactor 6; TRIP6; tumour; OPA-linteracting protein-1; OPI-1; zyxin-related protein-1; prophylaxis; inflammation; therapy; hyperproliferative disorder; infection; cancer; chromosome 7q22; ZRP-1; phosphorothioate; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to a method of calculating a rate factor, which is proportional to initial rate, for hybridisation to an RNA molecule by a given antisense nucleic acid. The method involves calculating the meltin energy required to convert specific regions of the RNA molecule to a single-stranded state; the energy gain resulting from hybridisation of the specific regions of the RNA molecule to an oligonucleotide; and the rate factor. The method is useful for calculating a rate factor that is proportional to a rate constant for hybridisation between complementary nucleic acide. The method is particularly useful for estimating initial rates, predicting nucleation sites and selecting target sites for antisense attack of RNA. The invention is useful in antisense generated the second secon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Calculating a rate factor that is proportional to initial rate, for predicting nucleation sites and selecting target sites for antisense attack of RNA, comprises calculating the melting energy and energy gain of regions of the RNA.
                   05-NOV-2002; 2002WO-US035479
                                                                                                                                                                                                                               modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human TRIP6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    27-AUG-2003
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                                                                                                                                                                                                                                                                                                                             modified_base
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                                                                   15-MAY-2003.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present sequence is an antisense oligonucleotide targetted immunodeficiency virus type 1 (HIV-1) tat gene. This
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  antisense oligonucleotide ISIS #198779
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ilarity 88.9%;
Conservative
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16. .2
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/mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                    /note= "Phosphorothioate backbone; All cytidine residues
are 5-methylcytidines"
                                                                                                                                                                                                                                                                                                                                                                                              mod_base= OTHER
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                                                                                                                                                                                  base= OTHER
                                                                                                                                                            "2'-methoxyethyl (2'-MOE) nucleotides"
                                                                                                                                                                                                                                                        "2' -methoxyethyl
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Pred. No. 9
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Best Local S
Matches 16
             Nyce JW,
Miller S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              expression. TRIP6 is also known as OPA-interacting protein-1 (OIP-1) and zyxin-related protein-1 (ZEP-1). TRIP6 DNA is located on chromosome 7q22. Antisense compounds of the invention are useful for modulating the expression of TRIP6 and for treating diseases or conditions associated with the expression of TRIP6 such as hyperpoliterative disorders (e.g. cancer). They are useful for diagnostics, therapeutics, prophylaxis e.g. to prevent or delay infection, inflammation or tumour formation, as research reagents and kits and in distinguishing between functions of various members of a biological pathway. The are also useful in antisense therapy. The present sequence is an antisense oligo targetted to human TRIP6 DNA. This oligo is used in the exemplification of the invention
                                                                                                                                                                                                                                                                                                                             Human; antisense; bronchoconstriction; allergy; hyposecretion; pain; respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antiinflammatory; antiasthmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis;
                                                                                               24-APR-2001; 2001US-0286036P
                                                                                                                                                               31-OCT-2002.
                                                                                                                                                                                                                                                             beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory distress syndrome; allergic rhinitis; pulmonary hypertension; emphysema, chronic obstructive pulmonary disease; cancer; bronchitis; pulmonary transplantation rejection; ss; primer.
                                                                                                                                                                                                                                                                                                                                                                                                                Human myosin X-derived oligonucleotide SEQ ID 1958.
                                                                                                                                                                                                                                                                                                                                                                                                                                                   29-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ABD22946;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to antisense compounds targetted to a nucleic acid encoding thyroid hormone receptor interactor 6 (TRIP6) to inhibit its
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 3; Page 76; 111pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        hyperproliferative disorders, such as cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New antisense oligonucleotides targeted to nucleic acids encoding thyroid hormone receptor interactor 6, useful for diagnosing or treating
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                                                                                                                            23-APR-2002; 2002WO-US013143
                                                                                                                                                                                              WO200285309-A2
                                                                                                                                                                                                                               Homo sapiens.
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             Sandrasagra A,
L, Shahabuddin
                                                              PHARM INC.
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                               Pabalan
                             'n
                             Aguilar
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RESULT 1497
ABT32616
ID ABT3261
XX
AC ABT3261
XX
DT 15-MAY-
XX
DE Human 1
XX
PUT NON WALL
XX
W VON WALL
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Matches 16
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27-JUL-2001;
28-SEP-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention comprises the amino acid and coding sequence of a von Willebrand factor (vWF)-cleaving enzyme. The DNA and protein sequences of the invention are useful in the diagnosis and treatment of thrombocytopenic purpura, and in developing drugs for myocardial infarction, cerebral infarction, arteriosclerosis, platelet thrombosis, and stenosis. The present DNA sequence represents a human von Willebrand factor (vWF) closers present DNA sequence represents a human von Willebrand
                                                                                                              Human; ds; protease inhibitor; gene therapy; vWF-cleaving enzyme; von Willebrand factor-cleaving enzyme; thrombocytopenic purpura; myocardial infarction; cerebral infarction; arteriosclerosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         von Willebrand factor-cleaving enzyme, applicable in diagnosis of, and supplementary therapy for, thrombotic thrombocytopenic purpura, and for developing drugs for e.g. myocardial infarction and cerebral infarction
                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                von Willebrand factor-cleaving enzyme; thrombocytopenic purpumyocardial infarction; cerebral infarction; arteriosclerosis;
                                             WO200288366-A1
                                                                       Homo sapiens
                                                                                                  platelet thrombosis;
                                                                                                                                                                       Human von Willebrand
                                                                                                                                                                                                 15-MAY-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 5; Fig 11; 144pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2003-120479/11.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       25-APR-2002; 2002WO-JP004141.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     07-NOV-2002.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      platelet thrombosis; stenosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (KAGA ) CHEMO-SERO-THERAPEUTIC RES INST
                                                                                                                                                                                                                                                                                                                                                                                  Local Similarity
les 16; Conserv
                                                                                                                                                                                                                                                                                                                                                        842
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ds; protease inhibitor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (vWF)-cleaving enzyme-related nucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ×
                                                                                                                                                                                                                                                                                                                                                                                                                                           20
                                                                                                                                                                                                                                                        standard; DNA;
                                                                                                                                                                                                                                                                                                                                               CGACCCTGAGGAGGACAC
                                                                                                                                                                                                                                                                                                                            CAACCCTGAGGACGACAC 1
                                                                                                                                                                                                                                                                                                                                                                                                                                           BP;
                                                                                                                                                                                                                                                                                                                                                                                    Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2001JP-00227510.
2001JP-00302977.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2002JP-00017596
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                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                         2 A:
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                                                                                                                                                                                                                                                                                                                                                                                            0.3%;
                                                                                                  stenosis.
                                                                                                                                                                    factor (vWF)-cleaving enzyme-related
                                                                                                                                                                                                                                                                                                                                                                                                                                        4 C; 7 G; 7 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          factor
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                                                                                                                                                                                                                                                        20
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Pred. No. 9.9e
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               gene therapy; vWF-cleaving enzyme;
enzyme; thrombocytopenic purpura;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Nozaki C,
                                                                                                                                                                                                                                                                                                                                                                                               9.9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                         0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                           Length
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                                                                                                                                                                     DNA #32
                                                                                                                                                                                                                                                                                                                                                                                  0;
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Matches 16
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27-JUL-2001; 2
28-SEP-2001; 2
25-JAN-2002; 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention comprises the amino acid and coding sequence of a willebrand factor (vWF)-cleaving enzyme. The DNA and protein sequence in the invention are useful in the diagnosis and treatment of thrombocytopenic purpura, and in developing drugs for myocardial infarction, cerebral infarction, arteriosclerosis, platelet thromand stenosis. The present DNA sequence represents a human von Wil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       von Willebrand factor-cleaving enzyme, applicable in diagnosis of, and supplementary therapy for, thrombotic thrombocytopenic purpura, and for developing drugs for e.g. myocardial infarction and cerebral infarction.
                    Drlica K,
                                                                                                                                                                                                         Synthetic.
                                                                                                                                                                                                                                                Nucleation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 20
                                                            17-MAY-2001;
                                                                                15-MAY-2002; 2002WO-US018532
                                                                                                     28-NOV-2002
                                                                                                                         WO200295059-A2
                                                                                                                                                                         modified_base
                                                                                                                                                                                                                  Human immunodeficiency virus
                                                                                                                                                                                                                                                                                          17-JUN-2003
                                                                                                                                                                                                                                                                                                              AAD54002;
                                                                                                                                                                                                                                                                                                                                 AAD54002 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; Fig
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     factor (vWF)-cleaving enzyme-related nucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2003-120479/11.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (KAGA ) CHEMO-SERO-THERAPEUTIC
                                                                                                                                                                                                                                                                                                                                                                                                    842 CGACCCTGAGGAGGACAC
                                                                                                                                                                                                                                                                     tat
                                                                                                                                                                                                                                     immunodeficiency virus;
                                                                                                                                                                                                                                                                                                                                                                                                                          l Similarity
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                                         PUBLIC HEALTH RES INST NEW YORK
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                                                                                                                                                                                                                                                                                                                                                                                    CAACCCTGAGGACGACAC
                                                                                                                                                                                                                                                                    antisense oligonucleotide
                   Wang
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                                                                                                                                                                                                                                                                                                                                                                                                                         0.3%;
ilarity 88.9%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; 2001JP-00128342.
; 2001JP-00227510.
; 2001JP-00302977.
; 2002JP-00017596.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mimura
                                                             2001US-0291737P
                                                                                                                                                                                                                                                                                         (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11; 144pp; Japanese.
                                                                                                                                                         /mod
                                                                                                                                                                                   Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ?
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                                                                                                                                                                                                                                                                                         entry)
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                                                                                                                                                         base= OTHER
                                                                                                                                             "Phosphorothioate backbone"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C; 4 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Maeda H,
                                                                                                                                                                                                                                                                                                                                 BP
                                                                                                                                                                                                                                                                                                                                                                                                      859
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Pred.
                                                                                                                                                                                                                                       gene therapy;
HIV-1; tat; se
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                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                 14.8; DB 1;
No. 9.9e+02;
                                                                                                                                                                                                                                                                    #11.
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                                                                                                                                                                                                                                                antisense; phosphorothicate;
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                                                                                                                                                                                                                                                                                                                                                                                                                                             Length
                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                platelet thrombosis,
human von Willebrand
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      'n
                                                                                                                                                                                                                                                                                                                                                                                                                                               20
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                                                                                                                                                                                                                                                                                                                                                                                                                          0
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WPI; 2003-140378/13

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RESULT 1920
ADQ88683/c
ID ADQ8868
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       useful in any bioluminescent assay which utilises luciferase/luciferin reaction as signaling mode. The present sequence is probably a mutagenic PCR primer used to construct a DNA encoding a mutant luciferase from Photinus pyralis, however it is displayed in figure 8, a figure not referred to anywhere in the specification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Lampyris noctiluca, Pyrocoelia nayako or Photinus pennsylanvanica , where in the luciferase, an amino acid is different from a corresponding residue in wild-type and has increased thermostability. Also included are a nucleic acid which encodes the thermostable luciferase, a vector comprising the nucleic acid, a cell transformed with the vector, a plant comprising the cell, producing the thermostable luciferase and a kit comprising the thermostable luciferase. The thermostable luciferase is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 22 BP; 4 A; 7 C; 5 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New luciferase enzyme having increased thermostability and which is a mutant form of the wild-type enzyme, useful for bioluminescent assays.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Murray JAH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       23-JAN-2004; 2004AU-00200277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                23-JAN-2004; 2004AU-00200277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          19-FEB-2004
Murray JAH,
Squirrell DJ;
                                                                                                                                                                                                                                           Firefly luciferase
                                                                                                                                                                                                                                                                                                                         ADQ88683 standard; DNA; 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure; Fig
                                        (MINA)
                                                                 23-JAN-2004; 2004AU-00200277
                                                                                           23-JAN-2004; 2004AU-00200277
                                                                                                                    19-FEB-2004.
                                                                                                                                                AU2004200277-A1
                                                                                                                                                                         Unidentified
                                                                                                                                                                                                                luciferase; thermostable mutant; ss;
                                                                                                                                                                                                                                                                     23-SEP-2004
                                                                                                                                                                                                                                                                                              ADQ88683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     similarity to luciferase of Photinus pyralis, Luciola mingrelica,
L.cruciata, L.lateralis, Hotaria paroula, Pyrophorus plagiophthalamus,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (MINA ) UK SEC
                                                                                                                                                                                                                                                                                                                                                                                                        12 CATCCCACGTGGGTGTCAGCA 32
                                                                                                                                                                                                                                                                                                                                                                                          μ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
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                                        SEC FOR DEFENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Tisi LC,
             Tisi LC,
                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                relates to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FOR DEFENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8; 40pp; English.
                                                                                                                                                                                                                                           mutant-associated primer E354K-SENSE/7792.
                                                                                                                                                                                                                                                                                                                                                                                                                                                       0.3%;
               White
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   White
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             Ę,
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 14.6;
Pred. No. 1
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               Lowe
                                                                                                                                                                                                               PCR; primer;
             8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Price
               Price
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RL,
                                                                                                                                                                                                                bioluminescent assay;
                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
             RĽ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                mutant) having
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Murphy MJ;
             Murphy MJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                            0
                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                60%
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The invention relates to a luciferase (thermostable mutant) having 60% csimilarity to luciferase of Photinus pyralis, Luciola mingrelica, CC L.cruciata, L.lateralis, Hotaria paroula, Pyrophorus plagiophthalamus, CC Lampyris noctiluca, Pyrocoelia nayako or Photinus pennsylanvanica, where in the luciferase, an amino acid is different from a corresponding CC residue in wild-type and has increased thermostability. Also included are a nucleic acid which encodes the thermostable luciferase, a vector cCC comprising the nucleic acid, a cell transformed with the vector, a plant CC comprising the thermostable luciferase and a kit CC comprising the thermostable luciferase and a kit CC comprising the thermostable luciferase is useful in any bioluminescent assay which utilises luciferase/luciferin CC primer used to construct a DNA encoding a mutant luciferase from CC PCR primer used to construct a DNA encoding a mutant luciferase from CC PCR primer used to construct a DNA encoding a mutant luciferase from CC PCR primer used to construct a DNA encoding a mutant luciferase from CC photinus pyralis, however it is displayed in figure 8, a figure not construct a DNA encoding a mutant luciferase from CC referred to anywhere in the specification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New luciferase enzyme having increased thermostability and which mutant form of the wild-type enzyme, useful for bioluminescent as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; Fig 8; 40pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2004-526119/51.
22 BP; 6 A;
5 C; 7 G; 4 T; 0 U; 0 Other;
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RESULT 1921
ADQ76475
ID ADQ7647
                                                                                                                                                                                                                                                                                                              Matches
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                                                                                                                                                                                                                                                                                                                                           Query Match
receptor; solid epithelial tumour; cell proliferation; cell invasi urological tumour; prostate cancer; bladder cancer; kidney cancer; cancer; breast cancer; lung cancer; colon cancer; PCR; ss; primer.
                                                                                                           23-SEP-2004
                                                human; 5HT2B receptor; 5HTR2B; G protein coupled receptor;
                                                                                                                                                                      ADQ76475
                                                                              Lower
                                                                                                                                                                                                                                                                                                             Local Similarity
les 17; Conserv
                                                                         PCR primer used to quantify human 5HT2B receptor (5HTR2B) mRNA
                                                                                                                                                                                                                                                 22
                                                                                                                                                                                                                                                                                12
                                                                                                                                                                      standard;
                                                                                                                                                                                                                                                                              CATCCCACGTGGGTGTCAGCA 32
                                                                                                                                                                                                                                                 CATCCCCCTTGGGTGTAATCA
                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                           (first entry)
                                                                                                                                                                      DNA;
                                                                                                                                                                                                                                                                                                                           0.3%;
                                                                                                                                                                      22
                                                                                                                                                                                                                                                                                                             0;
                                                                                                                                                                                                                                                                                                                              Score 14.6;
Pred. No. 1
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                                                                                                                                                                                                                                                                                                                                           Length
                                                                                                                                                                                                                                                                                                              Indels
                                                 GPCR;
                                   invasion;
                                                                                                                                                                                                                                                                                                              0
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26-DEC-2002; 2002FR-00016699 26-DEC-2002; 2002FR-00016699. 02-JUL-2004.

FR2849382-A1

Homo sapiens.

Latil

(UROG-)

UROGENE

WPI; 2004-509353/49

Using specific inhibitor of the 5HT2B receptor for treating sole epithelial tumors, particularly of the prostate, also in vitro of cancerous cells from overexpression of this receptor.

solid

detection

PCR primers ADQ76472-ADQ76473 and ADQ76474-ADQ76475 were used to quantify

Claim 12; SEQ ID NO 6; 35pp;

French

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Sequence

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22;

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4555

4575

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ADQ88648/c
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                                                                                                                                                           Query Match
Best Local
                                                                                                                                                                                                                                              The invention relates to a luciferase (thermostable mutant) having 60% similarity to luciferase of Photinus pyralia, Luciola mingralica, L. lateralis, Hotaria paroula, Pyrophorus plagiophthalamus, Lampyris noctiluca, Pyrocoelia nayako or Photinus pennsylanvanica, where in the luciferase, an amino acid is different from a corresponding residue in wild-type and has increased thermostability. Also included are a nucleic acid which encodes the thermostable luciferase, a vector comprising the nucleic acid, a cell transformed with the vector, a plant comprising the cell, producing the thermostable luciferase and a kit comprising the thermostable luciferase. The thermostable luciferase is useful in any bioluminescent assay which utilises luciferase/luciferin reaction as signaling mode. The present sequence is a mutagenic PCR
 ADQ88649
                         ADQ88649 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                New luciferase enzyme having increase mutant form of the wild-type enzyme,
                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2004-526119/51.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Firefly; luciferase; the bioluminescent assay;
                                                                                                                                                                                                                                                                                                                                                                                                                          Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Murray JAH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   23-JAN-2004; 2004AU-00200277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADQ88648 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (MINA ) UK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           23-JAN-2004; 2004AU-00200277
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Photinus pyralis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Firefly luciferase T214A/I232A/E354K mutant, PCR primer E354-sense.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                23-SEP-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADQ88648;
                                                                                                                   12
                                                                                           22
                                                                                                                                             l Similarity
17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  N
                                                                                                                                                                                                                                                                                                                                                                                                                       3; Page 19; 40pp; English
                                                                                                                                                                                                 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            luciferase; thermostable
                                                                                                                   CATCCCACGTGGGTGTCAGCA 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCAAACCCACCAGTTTAAAAC
                                                                                          CATCCCCTTGGGTGTAATCA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CCAAAACCACCAGATAAAATC 22
                                                                                                                                                                                                 BP; 6 A;
                                                                                                                                                                                                                                      signaling mode.
to construct a I
                                                                                                                                             Conservative
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                                                                                                                                                       0.3%;
                                                                                                                                                                                                5 C; 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               White
                         22
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                         ВP
                                                                                                                                                                                                                                      . The present sequence is a mutagenic PCR DNA encoding a mutant luciferase from Photinus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ВP
                                                                                                                                             0;
                                                                                                                                                                                                 G; 4 T; 0 U; 0 Other;
                                                                                                                                                           Score 14.6;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                 increased thermostability and which is enzyme, useful for bioluminescent assay
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pg,
                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Lowe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          mutant;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3
                                                                                                                                                           1.2e+03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          88;
                                                                                                                                                                      DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Price
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PCR; primer;
                                                                                                                                                                     Length 22;
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assays.
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                        similarity to luciferase of PhotLinus pyralls, Luciola mingrelica, L. cruciata, L. lateralis, Hotaria parcula, Pyrophorus plagiophthalamus, Lampyris noctiluca, Pyrocoelia nayako or Photinus pennsylanvanica, where in the luciferase, an amino acid is different from a corresponding residue in wild-type and has increased thermostability. Also included are a nucleic acid which encodes the thermostable luciferase, a vector comprising the nucleic acid, a cell transformed with the vector, a plant comprising the cell, producing the thermostable luciferase and a kit comprising the thermostable luciferase. The thermostable luciferase is useful in any bioluminescent assay which utilises luciferase/luciferin reaction as signaling mode. The present sequence is a mutagenic PCR primer used to construct a DNA encoding a mutant luciferase from Photinus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           23-SEP-2004
                             Unidentified
                                                                    luciferase;
                                                                                                 Thermostable
                                                                                                                             23-SEP-2004
                                                                                                                                                         ADQ88684;
                                                                                                                                                                                      ADQ88684 standard; DNA; 22
                                                                                                                                                                                                                                                                                                                                                                      Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 3; Page 19; 40pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New luciferase enzyme having increased thermostability and which is a mutant form of the wild-type enzyme, useful for bioluminescent assays
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2004-526119/51.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Murray JAH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                23-JAN-2004; 2004AU-00200277.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Photinus pyralis.
Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Firefly; luciferase; thermostable mutant; ss; bioluminescent assay; luciferin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (MINA ) UK SEC FOR DEFENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        19-FEB-2004.
                                                                                                                                                                                                                                                                                   12 CATCCCACGTGGGTGTCAGCA 32
                                                                                                                                                                                                                                                                                                                  17;
                                                                                                                                                                                                                                                         1 CATCCCCCTTGGGTGTAATCA
                                                                                                                                                                                                                                                                                                                            Similarity
                                                                       thermostable
                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                     BP; 4 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Tisi LC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                firefly luciferase mutant-associated primer E354K-ANTI/7793.
                                                                                                                             (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   relates to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               T214A/I232A/E354K mutant,
                                                                                                                                                                                                                                                                                                                           0.3%;
                                                                                                                             entry
                                                                                                                                                                                                                                                                                                                                                                     7 C; 5 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          White
                                                                      mutant;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              a luciferase (thermostable mutant) having
                                                                                                                                                                                      쁑
                                                                                                                                                                                                                                                                                                             0
                                                                                                                                                                                                                                                                                                                            Score 14.6;
Pred. No. 1
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                                                                                                                                                                                                                                                         21
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                                                                      PCR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9
                                                                                                                                                                                                                                                                                                                            ; DB 1;
1.2e+03;
                                                                      primer;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PCR primer E354-antisense.
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                                                                                                                                                                                                                                                                                                                                         Length
                                                                      bioluminescent assay;
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RESULT 1915
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KW Chondro
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Matches 17
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   knockout animals obtained by partially or completely inhibiting expression of the chondroitin/chondroitin sulphate synthase genes encoding the amino acid sequences of EQ ID No's 2, 4, 6, 66, 68, or 70, of 882, 775, 327, 884, 774 or 327 amino acids, respectively, or their homologues. The method can be used for detecting bone Paget's disease. The knockout animals can also be constructed for presenting the
                                                                                                                                                                                                           The present invention describes a method for detecting bone Paget's disease. The method comprises measuring the mutation or expression do of chondroitin/chondroitin sulphate synthase gene. Also described are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              detection; bone Paget's disease; Paget's disease;
chondroitin/chondroitin sulphate synthase;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human beta-4-galactosyltransferase 7 PCR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           07-NOV-2003; 2003WO-JP014211.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                21-MAY-2004
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                                                                                                                                                                                                                                                                                                                                                         Example 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2004-400679/37.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  07-NOV-2002; 2002JP-00323438
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                       for detecting bone Paget's disease based on mutation or expression f chondroitin/chondroitin sulfate synthase gene, also knockout for presenting pathological conditions for various applications:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              -
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                                                                                                                                                                                                                                                                                                                                                         SEQ
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                                                                                                                                                                                                                                                                                                                                                         ID NO
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                                                                                                                                                                                                                                                                                                                                                             52;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ..
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Pred. No. 1
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beta4GalT7; enzyme; human; PCR;
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Matches 17
                                   The invention relates to a novel method for identifying a subject at ri of breast cancer comprising detecting the presence or absence of one or more polymorphic variations associated with breast cancer in a nucleic acid sample from a subject. The method of the invention has cytostatic applications and may be useful for identifying a subject at risk of breast cancer, for early diagnosis, prevention and treatment of breast cancer, possibly via gene therapy, as well as to analyse and predict a response to a breast cancer treatment and in clinical drug trials. The current sequence is that of an Extend primer (also described as probe) the invention which was used to genotype human Rho family guanine-nucleotide exchange factor KIAA0861 gDNA which has been mapped to
                                                                                                                                                                                                                                                    Identifying a subject at risk of breast cancer by detecting the presence of polymorphic variations in the ICAM, MAPK10, KIAA0861, NUMA1 or GALE regions which are associated with breast cancer in a nucleic acid sample
                                                                                                                                                                                                                                                                                                                                       Roth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 single nucleotide polymorphism;
Rho family guanine-nucleotide exchange factor; KIAA0861;
chromosome 3q27.3; probe.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 pathological conditions
                                                                                                                                                                                                         Example
                                                                                                                                                                                                                                                                                                                                                                                             25-NOV-2002; 2002US-0429136P.
24-JUL-2003; 2003US-0490234P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO2004047623-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Extend primer 2 used to genotype human KIAA0861 polymorphism
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   26-AUG-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADP46221;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADP46221
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                      25-NOV-2003; 2003WO-US037948.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            breast cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 represents a PCR primer for (beta4GalT7), which is used
                                                                                                                                                                                                                                                  regions which are associated
                                                                                                                                                                                                                                                                                                                                                                   (SEQU-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LO-JUN-2004.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1697
                                                                                                                                                                                                                                                                                                                                       RB,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                N
                                                                                                                                                                                                         6
                                                                                                                                                                                                                                                                                                                                                                  SEQUENOM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AGAGCAGCCGGAGCCCGACAT 1717
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AGGGCAGCCTGACCCCGACTT 22
                                                                                                                                                                                                                                                                                                                                      Nelson MR,
                                                                                                                                                                                                         Page 98; 289pp; English.
                        position 3q27.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BP; 5 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
C;
                                                                                                                                                                                                                                                                                                                                       Braun
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    for various applications. The present sequence for a human beta-4-galactosyltransferase 7 used in the exemplification of the present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          gene therapy;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      <u>,,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 14.6;
Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3 T; 0 U; 0 Other
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                         Kammerer SM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   .2e+03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 1;
                                                                                                                                                                                                                                                                                                                                         Reneland
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             , 8B
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            primer; PCR;
                                                                                                                                                                                                                                                                                                                                         <del>بر</del>
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Query Match Best Local

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Conservative

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 1913
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CC 3' end does not contain seven or more bases that are perfectly matching CC except one mismatch to the 3' end sequence of the first primer or the Second primer, the first primer at its 3' end does not contain six or CC more bases that are perfectly matching to a sequence anywhere of the CC first primer or the second primer, and the first primer at its 3' end CC does not contain eleven or more bases that are perfectly matching except CC one mismatch to a sequence anywhere of the first primer or the second CC primer. The method is useful for designing primers for simultaneous CC amplification of target DNA fragments in a single multiplex polymerase CC chain reaction. It is also useful in the identification of multiple genes CC related to multifactorial diseases, the genome-scale detection of genetic CC eleted to multifactorial diseases, the genome-scale detection of genetic CC alterations, the studies in pharmacogenetic reactions, the genotyping CC genetic polymorphisms in a large population, the gene expression CC profiling in various samples and high throughput genotyping technologies. This sequence corresponds to an example of a primer of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local S
Matches 17
          mutant archaeal DNA polymera
where the mutation is a vali
valine to lysine, valine to
                                                                                  The invention
                                                                                                                                                                      New mutant archaeal or Pfu DNA polymerase with a reduced base analog detection activity containing mutations that modulate other DNA polymerase activities including DNA polymerization or 3'-5' exonucle
                                                                                                                                                                                                                                                                                                                                                 25-OCT-2002; 2002US-00280962.
18-NOV-2002; 2002US-00298680.
07-APR-2003; 2003US-00408601.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DNA polymerase; ss; PCR; primer; pfu; base analogue detection activity; DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADN75141 standard; DNA;
                                                                                                                                                       polymerase
activity.
                                                                                                                                                                                                                                                                                                                                                                                                                        24-OCT-2003; 2003WO-US033997.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pyrococcus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DNA sequencing; DNA amplification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          29-JUL-2004
                                                                                                                      Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PFU DNA polymerase D92-P94 deletion mutagenic primer.
                                                                                                                                                                                                                                                                                                                (STRA-) STRATAGENE
                                                                   analogue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    421
          vention relates to a mutant archaeal DNA polymerase with a reduced nacifying activity (especially dU detection), where the archaeal DNA polymerase comprises a mutantion at position V93, the mutantion is a valine to arginine, valine to glutamic acid, the mutantion is a valine to arginine, valine to glutamic acid, to lysine, valine to aspartic acid, valine to glutamine or valine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 Similarity
17; Conserv
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                                                                                                                                                                                                                                                                              Hogrefe HH,
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                                                                                                                    SEQ
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                                                                                                                    ID NO
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                                                                                                                 192pp;
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Pred. No. 1.2e
0; Mismatches
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                                                                                                                    English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  vent; Deep vent; KOD; Tgo; JDF-3;
synthesis; DNA cloning;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .2e+03
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to asparagine

substitution.

archaeal DNA

polymerase

The present invention relates to diagnosing

or monitoring transplant

Claim 58;

SEQ

IJ

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1756;

1762pp; English

genes.

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RESULT 1914
ADP11747
ID ADP1174
XX ADP174
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XX ADP1774
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CC mutant archaeal DNA polymerase having a reduced base analogue detection activity (where the mutant DNA polymerase is a chimera that comprises a CC polypeptide that increases processivity and/or salt resistance, or an CC insertion or a delection), a composition comprising a Pfu D14A/E143A CC mutant also mutated at V93 as above, a kit comprising any of the mutant CC Tgo, archaeal or Pfu DNA polymerases cited above, a method for DNA CC synthesis (comprising providing any of the mutant DNA polymerases cited above, and contacting the enzyme with a nucleic acid template, where the cenzyme permits DNA synthesis), a method for cloning of a DNA synthesis (compositions of the present invention are useful for CC exponential PCR amplification for site-directed or random mutagenesis. CC The methods and compositions of the present invention are useful for CC isolating and characterising archaeal or Pfu DNA polymerases with reduced CC base analogue detection activities. Mutations were introduced into the DNA polymerases that were likely to reduce uracil detection, while having composition is a mutagenic PCR primer used to create the mutants of the invention.
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Best Local
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                                                                                                                                        Diagnosing or monitoring transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic islet, lung, bone marrow or stem cell transplant rejection, in an individual, comprises detecting the expression level of
                                                                                                                                                                                                                                                                                                                                                                                                                                                      24-APR-2002;
20-DEC-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          24-APR-2003; 2003WO-US012946
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 transplant rejection; immune inflammatory bowel disease; n
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Set 2 left PCR primer for marker probe
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                                                                                                                                                                                                                                                                                                                                                                                                  (EXPR-)
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17; Conserv
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2002US-00325899.
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                                                                                                                                                                                                                                                                                                                                           ζ,
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                                                                                                                                                                                                                                                                                                                                           Woodward
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Pred. No. 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 rheumatoid
sclerosis;
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                                                                                                                                                                                                                                                                                                                                           Prentice
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HIV; AIDS;
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                                                                                                                                                                                                                                                                                                                                              Morris
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ss; primer
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to a method of diagnosing or predicting susceptibility to Crohn's disease, comprising determining the presence or absence of a disease-prediaposing haplotype of a JM1 variant allele and/or 268S allele at the NOD2/CARD15 locus in an individual. The disease-predisposing haplotype further comprises a variant allele or an allele chosen from JM15, JM16, JM17 and JM18 variant allele. The disease-predisposing haplotype further comprises an allele at a single nucleotide polymorphism (SNP) chosen from SNP8, SNP12, and SNP13. The method is useful for diagnosing on predicting susceptibility to a variety of autoimmune diseases such as Crohn's disease, psoriasis, ulcerative colitis, mysathenia gravis, autoimmune gastritis and Type I diabetes. The present sequence represents a primer used to sequence the nucleotide sequence of NOD2/CARD15.
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haplotype
The invention relates to a method of designing primers for simultaneous amplification of target DNA fragments in a single multiplex polymerase chain reaction by aligning a first primer and a second primer. The metl comprises: (a) aligning a first primer and a second primer; and (b) selecting the first primer where the first primer at its 3' end does not be selected the first primer and the first primer at its 3'.
                                                                                                                                  Designing primers for simultaneous amplification of target DNA fragments in a single multiplex polymerase chain reaction, for high throughput multiplex DNA sequence amplification, comprises aligning two primers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ss; primer; simultaneous amplification;
single multiplex polymerase chain reaction; multifactorial disease;
genetic alteration; pharmacogenetic reaction; genotyping; polymorph
                                                                                                                                                                                                                                                                                                                                                                                                                WO2004033649-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Single multiplex
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADO10914 standard; DNA; 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 22 BP; 3 A; 6 C; 2 G; 11 T; 0 U; 0 Other;
                                                                                                       Disclosure;
                                                                                                                                                                                                                                           Li H,
                                                                                                                                                                                                                                                                                                              07-OCT-2002; 2002US-0417009P
                                                                                                                                                                                                                                                                                                                                             07-OCT-2003; 2003WO-US031874
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADO10914;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             determining presence or absence of disease-predisposing comprising JWI variant allele and/or 268S allele at NOD2/CARD15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Page
                                                                                                   Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                             NEW JERSEY MEDICINE & DENTISTRY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ion; pharmacogenetic
profiling.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15;
                                                                                                       34; 120pp; English.
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Pred. No. 1.2e+03;
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                                 method
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does not

The invention relates to a method of designing primers for simultaneous amplification of target DNA fragments in a single multiplex polymerase chain reaction by aligning a first primer and a second primer. The method comprises: (a) aligning a first primer and a second primer; and (b) selecting the first primer where the first primer at its 3' end does not contain four or more bases that are perfectly matching to the 3' end sequence of the first primer or a second primer, the first primer at its

Disclosure; Page 35;

120pp;

English.

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RESULT 1912
ADO11085
ID ADO1108
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Best Local S
Matches 17
                                                                                                                                                                 Designing primers for simultaneous amplification of target DNA fragments in a single multiplex polymerase chain reaction, for high throughput multiplex DNA sequence amplification, comprises aligning two primers.
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                                                                                                                                                                                                                                                                                                                                          07-OCT-2002; 2002US-0417009P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                genetic alteration;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ss; primer; simultaneous amplification; multifactorial disease; single multiplex polymerase chain reaction; multifactorial disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Single multiplex PCR primer #457.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADO11085 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               expression profiling.
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Pred. No. 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                reaction; genotyping;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                polymorphism;
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immunoglobulin-like LRR-domain Containing protein;

NUMB binding protein LNXp80-like protein;

zinc finger protein-like protein;

actin-binding protein alpha-like protein;

actin-binding protein frabin-alpha-like protein;

actin-binding protein 2/3 complex subunit lA-like protein;

actin related protein 2/3 complex subunit lA-like protein;

hepatocellular carrinoma autoantigen-like protein;

hepatocellular carrinoma autoantigen-like protein;

hepatocellular carrinoma containing protein MDS029-like protein;

TRAP-delta-like protein;

INTSIG-5-like WD-40 repeats containing protein-like protein;

ferririn light chain-like protein; leucine-rich protein 130-like protein;

ferririn light chain-like protein 2-like protein; human; probe; ss.
                     treating, preventing associated disorders, or CNS diseases.
                               New isolated NOVX polypeptides and nucleic acid molecules useful for treating, preventing and diagnosing pathological conditions with NOVX-associated disorders, such as cancer, obesity, diabetes and inflammatory
                                                                                                         Alsobrook JP, Burgess CE,
Edinger S, Gerlach V, Gio
Millet I, Ooi CE, Pattura
Zerhusen BD, Zhong H, Zho
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2310038H17RIK membrane protein-like protein;
573045109RIK cyclin-like protein; cMob5 cancer specific protein;
LRP16 protein-like protein;
phosphatidylethanolamine-binidng protein-like protein;
immunoglobulin-like LRR-domain containing protein;
                                                                                                                                                                                                          (SPYT/)
                                                                                                                                                                                                                                 (MILL/)
(OOIC/)
(PATT/)
(RIEG/)
                                                                                                                                                                                                                                                                                             (GIOT/)
(GORM/)
(GUOX/)
(KEKU/)
                                                                                                                                                                                                                                                                                                                                              (CHAN/)
(CHAU/)
(EDIN/)
(GERL/)
                                                                                                                                                                                                                                                                                                                                                                                              (ALSO/)
(BURG/)
(CATT/)
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                                                                                  WPI; 2004-108207/11.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           17-OCT-2001;
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15-OCT-2001;
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                                                                                                                                                                                                                                                                                     (MEZE/)
                                                                                                                                                                     PATTURAJAN M.
RIEGER D K.
SPYTEK K A.
TAUPIER R J.
ZERHUSEN B D.
ZHONG H.
ZHONG M.
                                                                                                                                                                                                                                                          GUO X.
KEKUDA R.
MEZES P S.
MILLET I.
OOI C E.
                                                                                                                                                                                                                                                                                                                   GIOT L.
GORMAN L.
                                                                                                                                                                                                                                                                                                                                  EDINGER S.
GERLACH V.
GIOT L.
                                                                                                                                                                                                                                                                                                                                                                      CATTERTON E. CHANT J S. CHAUDHURI A.
                                                                                                                                                                                                                                                                                                                                                                                            ALSOBROOK J I
BURGESS C E.
CATTERTON E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; 2001US-0327454P.
; 2001US-0328029P.
; 2001US-0328029P.
; 2001US-0328049P.
; 2001US-0328449P.
; 2001US-032844P.
; 2001US-0330142P.
; 2001US-0341058P.
; 2001US-0341059P.
; 2001US-0341059P.
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                                                                                                                                             Catterton E,
                                                                                                                                   Gorman
                                                                                                                     Prieger DK,
                                                                                                                                  Chant JS,
                                                                                                                     Spytek
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Va. Taupier F
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cc intracellular protein-like proteins; sorting nexin 6-like proteins; cc 2310038H17RIK membrane (TmSP) protein-like proteins; 573045109RIK cyclin-clike proteins; clwob5 cancer specific proteins; LRP16 proteins-like cyclin-clike proteins; clwob5 cancer specific proteins; LRP16 proteins-like cyclin-creatins; phosphatidylethanolamine-biniding proteins! LRP16 proteins-like proteins; cc immunoglobulin-like LRR-domain containing proteins; NUMB binding protein culvay80-like proteins; actin-binding protein-like proteins; actin-binding cyrotein alpha-like proteins; actin-binding protein-like proteins; actin-binding protein-like proteins; cc proteins; actin-related protein 2/3 complex subunit IA-like proteins; cc stem/progenitor cells protein MDS029-like proteins; haematopoietic cremprogenitor cells proteins; leucine-rich protein-like proteins; cc ferririn light chain-like proteins; leucine-rich protein-like proteins; mathematory disponent are useful for the cc methods and compositions of the present invention are useful for the cc diagnosis and treatment of disorders associated with aberrant expression crarivity of the NOVX polypeptide, such as cancer, diabetes, obesity, and endocrine, CNS and inflammatory disorders. They can also be used in the context of the context 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention describes a new common conservative defined sequence of, a mature form, one or more conservative sequence of, a mature form, one or more conservative sequence of, a mature form to 158 amino acids SEQ ID NO: 2r substitutions or at least 9% identity to 158 amino acids SEQ ID NO: 2r as given in the specification, where n is an integer between 1-33. The as given in the specification, where n is an integer between families as given in the specification, where n is an integer between 1-33. The novel proteins of the invention are members of the following families novel proteins of the invention are members of the following families novel proteins of the invention are members of the following families.
Sequence
                                                                                                                                              various detection and screening assays, chromosome mapping, tissue ty and predictive medicine. This sequence represents a probe used in the detection of DNA encoding a novel human polypeptide of the invention.
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22
₿₽;
2 A;
6 C;
5 G;
9 T;
0
U;
0 Other;
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Query Match Best Local S Matches 1 Similarity
17; Conserv Conservative 0.3%; ٥, Score 14.6; Pred. No. 1 Mismatches .2e+03; 멂 4. Length Indels 22; 0; Gaps 0

밁 N GCCTCTAGGTTCTGTGCTCTT 22 Ş

5030

GCCTCTTGGTTCCAGGCTCTT

5050

PACE X PACE A PA RESULT 1910 ADO21213/c NOD2/CARD15 15-JUL-2004 ADO21213 standard; DNA; sequencing primer #23. (first entry) 22

Crohn's disease; NOD2/CARD15 locus; single nucleotide polymorphism; S: autoimmune disease; psoriasis; ulcerative colitis; myasthenia gravis; autoimmune gastritis; Type I diabetes; ss; primer.

Homo

US2004076960-A1

22-APR-2004.

18-OCT-2002; 2002US-00274300

18-OCT-2002; 2002US-00274300

(TAYL/)
(ROTT/)
(YANG/)
(SUGI/)
(TARG/) TAYLOR K I ROTTER J YANG H. SUGIMURA I TARGAN S HP

Taylor ģ Rotter JI, ۳× Yang H, Sugimura <u>~</u>

Targan

SR

2004-339995/31.

Example 20C; SEQ ID NO

75; 164pp; English

Diagnosing or predicting susceptibility to Crohn's disease in individual

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ADJ92
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The invention relates to a novel non human knock-in (transgenic) animal carrying DNA with at least one manganese superoxide dismutase (MnSOD) exon flanked by two recombinase recognition sequences. The invention is useful for creating mouse models for use in researching ageing, including specific diseases such as Parkinson's disease and arteriosclerosis. The present sequence is used in the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    purity, identification of hybrids and plant breeding. The oligonucleotides are useful in automated processes, do not require radioactive detection methods and can differentiate between almost all commercial rose varieties. ADH68375-ADH68674 represent the PCR primers
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                                                                                                                                                                                                                                                            Non human knock-in (transgenic) animal comprising manganese superoxide dismutase exon, is useful in researching ageing.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              SHIRASAWA T.
KOSEKI H.
                                                                                                                                                                                                                                                                                                                                                                                              'n,
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                                                                                                                                                                                                     SEQ ID NO 7; 28pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PCR;
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Matches 17; Conservative
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                   cytostatic; antidiabetic; anorectic; cerebroprotective; neuroprotective; antiinflammatory; thyromimetic; gene therapy; antisense therapy; NOVX polypeptide related disorder; cancer; diabetes; obesity; endocrine disorder; CNS disorder; inflammatory disorder; chromosome mapping; tissue typing; predictive medicine;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    detection of a single nucleotide polymorphism in present sequence represents a primer of the inver
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 2; SEQ ID NO 5899; 2627pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Novel polynucleotide useful for PCR amplification along with two fragment from another set of sequences, or for detecting single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       08-MAR-2002; 2002JP-00064373
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                                                                                                                                                                                                                                                              AD009381;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  nucleotide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local
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Best Local
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The invention relates to a kit for diagnosing and treating T-cell associated diseases which comprises a panel of nucleic acid primers specifically priming and allowing amplification of each Vbeta gene, VbetaRNA or cDNA. The kit is useful for diagnosing organ transplant rejection and diagnosing and treating T-cell associated diseases including autoimmune diseases, degenerative nervous system diseases graft versus host disease, hypersensitivity diseases, infectious dit
                                                                                                                                                                                                                                    Disclosure;
                                                                                                                                                                                                                                                                                                                  Kit for diagnozing and treating T-cell associated diseases e autoimmune, degenerative nervous system and infectious disease nucleic acid primers specifically priming and allowing amplitudes.
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19-SEP-1995;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      l Similarity
17; Conser
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Rowen L;
                                                                                                                                                                                                                                    SEQ ID NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
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95US-00531241.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      primer;
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                                                                                                                                                                                                                                 1074; 164pp; English.
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Pred. No. 1.
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disease, comprises
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infectious diseases

radioactive labelling and

sequencing using

This invention describes novel oligonucleotides derived from microsatellite markers and used for the amplification of the rose genome. The invention also describes a test kit for genetic analysis of cultured or wild forms of the genus Rosa sp. that contains at least one of the new oligonucleotide primers and preparing microsatellite markers of Rosa sp. by PCR amplification of hypervariable genomic regions, using at least one primer pair, to produce polymorphic fragments which are separated and detected. The primer pairs flank the microsatellite locus being amplified. The amplified markers are separated by electrophoresis, especially on high-resolution agarose or native or denatured polyacrylamide gels, or by mass spectrometry. After separation, the amplicons are detected by staining (ethicium bromide or silver),

New oligonucleotides from rose microsatellite markers, useful analysis, including identification of varieties and hybrids.

for

genomic

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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         'atrophic gastritis. Degenerative nervous system diseases include multij sclerosis and Alzheimer's disease. Hyporsensitivity diseases include T I hypersensitivities such as contact with allergens that lead to allergies. Type II hypersensitivities such as those present in Goodpasture's syndrome and Type IV hypersensitivities such as those manifested in leprosy. Infectious diseases include viral infections caused by viruses such as HIV, fungal infections such as those caused by the yeast genus Candida, parasitic infections such as those caused by schistosomes, filaria and bacterial infections such as those caused by Mycobacterium. Neoplastic diseases include lymphoproliferative diseases such as leukaemias, lymphomas and cancers such as cancer of the brain, breast. The present sequence represents a Vbeta PCR primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                       microsatellite marker; rose genome; PCR; hypervariable region; genetic mapping; relatedness analysis; hybrid identification;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 22
                                                                                                                                                                                                                                                                                                                 17-MAY-2002; 2002DE-01022632
                                                                                                                                                                                                                                                                                                                                        16-MAY-2003; 2003WO-DE001572.
                                                                                                                                                                                                                                                                                                                                                                   27-NOV-2003.
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                                                                                                                                                                                                                                                                                                                                                                                                                                           breeding;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Roga
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   and neoplastic diseases. Autoimmune diseases include Addison's disease, atrophic gastritis. Degenerative nervous system diseases include multip
                                                                                                                                                                                                                                                                                         (CONC-)
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Pred. No. 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         identification; plant;
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ADF92125/c
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention describes a polynucleotide (I) relating to saccharide or lipid metabolism. (I) has antidiabetic, anorectic and hypolipaemic activities, and can be used in gene therapy. The polynucleotide (I) and its encoded polypeptide as well as its antibody are applicable in the diagnosis of and developing drugs for e.g. diabetes, obesity, hyperlipidaemia and hypercholesterolaemia, including by gene therapy. The polynucleotide (I) shows an elevated expression due to the administration of an insulin resistance-improving agent. The present sequence is used in the exemplification of the present invention.
                                                                                                                               21-MAY-2002; 2002JP-00145689
17-JUN-2002; 2002JP-00175271
09-JUL-2002; 2002JP-00199759
                                                                                                                                                                                                                                                                                              human; cytokeratin; CK; LAMP; loop mediated isothermal amplification; tumour metastasis; prostate cancer; lymphoma; human; CK18; ss; primer; PCR; loop F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 22
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07-OCT-2002; 2002JP-00293225
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           LAMP nucleic acid amplification primers for detection of cytokeratin expression as indicator in diagnosis of tumour metastasis.
                                                                                                                                                                                      20-MAY-2003; 2003WO-JP006256.
                                                                                                                                                                                                                 27-NOV-2003
                                                                                                                                                                                                                                                                                                                                                  Human cytokeratin 18-related
                                                                                                                                                                                                                                                                                                                                                                              26-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                                         ADF92125
                                                                                                                                                                                                                                                                                                                                                                                                                                    ADF92125 standard; DNA; 22
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                                                                                                         (SYSM-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   relating to saccharide or lipid metabolism, polypeptide encoded and body, applicable in diagnosis of and developing drugs for e.g. etes, obesity, hyperlipidemia and hypercholesterolemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2004-071000/07.
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                                                                              Akai Y,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQ ID NO 21; 247pp; Japanese.
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Pred. No. 1.
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RESULT 1904
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Best Local
The invention relates to a method of diagnosing cancer in an individual by measuring the genetic amplification, mRNA levels or protein levels of the elongation factor isoform EEFHA2 (also known as eEF-lalpha2) and comparing them with those from a normal control. An increase in EEFHA2 amplification or mRNA or protein levels relative to the control is indicative of the individual having cancer. The invention also relates to a method for prognosing survival and selecting an effective treatment regimen for a patient suffering from cancer; a kit for prognosing and/or diagnosing cancer; a method for inhibiting expression of EEFHA2 in a tumour cell using an EEFHA2 antisense oligonucleotide, especially a ribozyme; a method of treating cancer by administration of an inhibitor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to novel nucleic acid amplification primers for t detection of human cytokeratin (CK) 18, 19 or 20 expression by the LAMP (loop mediated isothermal amplification) method. The primers of the invention may be useful for the detecting cytokeratin 18-20 expression an indicator for the diagnosis of tumour metastasis, particularly prostate cancer and lymphoma. The amplification using the primers is highly efficient and allows very sensitive detection of tumour
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; EEF1A2; eEF-lalpha2; EEF1A isoform; chromosome 20q13; genetic amplification; mRNA quantification; protein quantification; cancer; diagnosis; prognosis; drug screening; antisense therapy; gene therapy; ovarian cancer; breast cancer; colorectal cancer;
                                                                                                                                                                                                                                         Diagnosing cancer in a subject by comparing the measured EEF1A2 gene amplification, or EEF1A2 mRNA or protein levels or activity in a biological sample obtained from the subject with those in a control.
                                                                                                                                                                                                                                                                                                                                                                                                              07-JUN-2002; 2002US-0387231P
                                                                                                                                                                                                                                                                                                                                                                                                                                               06-JUN-2003;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human EEF1A2 phosphorothioate antisense oligonucleotide,
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                                                                                                                                                                                                           Disclosure; SEQ ID NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO2003104488-A1
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                                                                                                                                                                                                                                                                                                                                                                                CANCER CARE ONTARIO
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                                                                                                                                                                                                                                                                                                                                                                                                                                               2003WO-CA000865
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.3%;
                                                                                                                                                                                                           3; 37pp;
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Pred. No. 1.
                                                                                                                                                                                                           English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      antisense oligonucleotide;
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RESULT 1901
ABD19693/c
ID ABD1965
XX ABD1965
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XX Huma
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Best Local S
Matches 17
    Nyce JW,
Miller S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present balobiotic D and recombin
                                                                                                                                                                                                                                                                                                                                                               respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antiinflammatory; antiasthmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory distress syndrome; allergic rhinitis; pulmonary hypertension; emphysems; chronic obstructive pulmonary disease; cancer; bronchitis; pulmonary transplantation rejection; ds.
                                                                                                                                                                                                                                                                      WO200285309-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human endothelial nitric oxide synthase fragment 1407.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Dunaliella salina.
                                                                                                                                                                        23-APR-2002; 2002WO-US013143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; antisense;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     29-JUL-2004
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                                                                            (EPIG-)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      present invention provides one new salt tolerance relative protein, obiotic Dufour algal enolase, and polynucleotides encoding the enolase recombinant technological process of producing the enolase. The sent invention also discloses the use of the polynucleotides encoding the nolase. The present invention also discloses the method of using the plates in improving plant's salt tolerance. The present sequence presents an RT-PCR primer used in the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4465
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17; Conserv
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                                                                          EPIGENESIS PHARM INC
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  Li Y, Sa
, Tang L,
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                                                                                                                         2001US-0286036P
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    Sandrasagra A,
L, Shahabuddin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    bronchoconstriction; allergy; hyposecretion; pain;
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Pred. No. 1
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                           Katz
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ENG CO
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                             Pabalan
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                           Aguilar
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RESULT 1902 ADG44920/c

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21

GACCACCACGCCGCCACGGCC

3911 GCCCACCCGACGCCGCGGCC 3931

Query Match Best Local S Matches 17

Similarity

0.3%;

Score 14.6; Pred. No. 1

.2e+03;

DB 1; Length

Conservative

0

Mismatches

Indels

0

Gaps

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ADG44920 standard; DNA; 22

ВP

26-FEB-2004

(first entry) primer

R10

PCR

SEQ

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NO:21.

ADG44920

WO2003093470-A1

Synthetic.

saccharide metabolism; lipid metabolism; antidiabetic; anorectic; hypolipaemic; gene therapy; diabetes; obesity; hyperlipidaemia; hypercholesterolaemia; insulin resistance; PCR primer; ss.

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The invention also describes a kit, that comprises: (a) a delivery constructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antianflammatory, antiasthmatic, analgesic, hypotensive, immunosuppressive and cytostatic activity, is a composition of the composition is useful for preventing or treating a respiratory, ling or malignant disease. The administered composition comprises oligo and is administered to reduce the production or availability, or to increase the degradation of the target mRNA or to reduce the amount of target polypeptide present in the lungs. The composition allergies and/or surfactant hypoproduction are associated with a disease or condition such as pulmonary vasoconstriction, inflammation, allergies, asthma, impeded respiration, respiratory conditions pulmonary obstruction, pain, cystic fibrosis, allergic rhinitis, pulmonary transplantation, repection, pulmonary unponary of transplantation, pain, cystic fibrosis, allergic rhinitis, pulmonary transplantation rejection, pulmonary infections, bronchitis or cancer. The reduced adenosine content of the anti-sense oligos corresponding to thomal content of the anti-sense oligos corresponding to the target RNA serves to prevent the breakdown of the content of the anti-sense oligos corresponding to the target RNA serves to prevent the breakdown of the content of the anti-sense oligos corresponding to the target RNA serves to prevent the breakdown of the content of the anti-sense oligos corresponding to the target RNA serves to prevent the breakdown of the content of the anti-sense oligos corresponding to the target RNA serves to prevent the breakdown of the content of the anti-sense oligos corresponding to the breakdown of the content of the anti-sense oligos corresponding to the content of the 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              surfactant depletion or hyposecretion, when administered to a mammal. oligonucleotides are derived from a gene encoding or regulating oligonucleotides are derived from a gene encoding or regulating expression of a target polypeptide associated with lung airway or lung dysfunction or cancer and can be anti-sense to the corresponding mRNA.
               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pharmaceutical composition for treating as oligonucleotide containing less percentage nucleic acids associated with lung airway of the contract of the contrac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              bronchoconstriction, respiratory tract inflammation, allergreducing adenosine sensitivity, levels of adenosine (A) or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      comprising oligonucleotides,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This invention describes a novel composition
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                                                                                                                                                                oligonucleotides into products that free adenosine into ., lung, brain, heart, kidney, etc, tissue environment ar
                                                                                                                  lung,
it any
                    22
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               BP;
                                                                                                                       unwanted
               0
               P
               g
                                                                                                                  effects due to
ť.
               12 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  763pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                effective for alleviating
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                                                                                                                                                                                                                    the system
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               CC receptor (I) having at least one polypeptide having 90 percent sequence (C identity with a 732 (S1) or 649 (S2) amino acid sequence given in C specification, and where (I) binds a ligand comprising a 164 (S3) amino acid sequence, given in specification, or at least one polypeptide (C acid sequence, given in specification, or at least one polypeptide (CC and producing an antibody to (I) and a cytokine-binding domain of a class I cytokine receptor and a cytokine-class I cytokine receptor and a cytokine-binding domain of a class I cytokine receptor and a vehicle is useful (Cf or: reducing haematopoietic cells and hematopoietic progenitor cells in a mammal; inhibiting zcytor171ig-induced proliferation or differentiation (CC of hematopoietic cells and hematopoietic progenitor cells; reducing cytor171ig-induced inflammatory disease such as inflammatory disease is a cct chronic inflammatory disease such as inflammatory bowel disease; (C ulcerative colltis, Crohn's disease, atopic dermatitis, eczema and (C psoriasis The disease is acute inflammatory disease such as cc undutoxaemia, septicaemia, toxic shock syndrome and infectious disease.

CC an immune response inhibiting composition is useful for inhibiting an inflammatory response inhibiting composition is useful for suppressing an inflammatory response in a mammal with inflammation. An antibody that specifically binds to (I) is useful for detecting the presence of a mating composition is useful for suppressing an inflammatory heterofice of a specifically binds to (II) is useful for detecting the presence of a specifically binds to (II) is useful for detecting the presence of a specifically binds to (II) is useful for detecting the presence of a specifically binds to (II) is useful for detecting the presence of a specifically binds to (II) is useful for specifical tendence of a specific and the specific and the specific and the specific and
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Novel multimeric or heterodimeric cytokine receptors useful for treating chronic inflammatory disease such as inflammatory bowel disease, ulcerative colitis, acute inflammatory disease such as endotoxemia,
                                                                                                      Human novel
                                                                                                                                                                                               ADM29528 standard;
                                                                                                                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                       multimeric or heterodimeric cytokine receptor in a biological sample. This sequence represents a primer used in the creation of multimeric
   WO2003064628-A2
                               Homo sapiens
                                                           human; novel
primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention describes an isolated multimeric or heterodimeric cytokine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 29;
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(NOVA/)
(GROS/)
                                                                                                                                    20-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                        neterodimeric cytokine receptors of the
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WHITMORE T E.
HAMMOND A K.
NOVAK J E.
GROSS J A.
                                                                                                                                                                                                                                                                                                                                l Similarity
17; Conserv
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                                                                                                      protein (NOV) coding sequence-specific PCR primer
                                                                                                                                                                                                                                                                                                                                                                                          BP; 8
                                                                                                                                                                                                                                                                                                                                  Conservative
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Whitmore
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e TE, Hammond AK, Novak JE,
                                                                         NOV; cancer;
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Pred. No. 1.
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                                                                          associated disorder; PCR;
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ADM67654/c
ID ADM67654 standard; DNA; 22
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Matches 17; Conserv
ss; RT-PCR; salt tolerance; balobiotic
enzyme; primer.
                                           D. salina enolase RT-PCR primer SEQ ID NO:4.
                                                                          03-JUN-2004
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1769 GAAGATCACGTCCTGGTTTCT 1789

0.3%; nilarity 81.0%; Conservative

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Mismatches

Score 14.6; Pred. No. 1

.2e+03

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GTACATCACAGCCTGGTTTCT

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18-JUN-2002;
19-JUN-2002;
25-JUN-2002;
02-JUL-2002;
07-AUG-2002;
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27-FEB-2002;
15-MAR-2002;
                                    The invention comprises the amino acid and coding sequences of novel human proteins (NOV proteins). The DNA and protein sequences of the invention are useful for the manufacture of a medicament for treating syndrome associated with a human disease comprising a pathology associated with the protein, such as: cancer or immune associated disorders. The present DNA sequence was used as a PCR primer for a NOV protein coding sequence in an example of the invention.
                                                                                                                                                                                                                                                                                                                                                                           Alsobrook JP, Bader JS, Berghs C, Burgess CE, Casman Catterton E, Chaudhuri A, Edinger SR, Ellerman K, Ger Gorman L, Guo X, Herrmann JL, Ji W, Khramtsov NV, Li Ort T, Patturajan M, Rastelli L, Rieger DK, Shenoy SC Spytek KA, Vernet CAM, Zhong H, Zhong M;
Sequence
                                                                                                                                                                                                                                                                 New NOVX polypeptide, useful for the manufacture of a medicament for treating e.g., cancer or immune associated disorders.
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17-MAY-2002;
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  22 BP;
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2002US-0366802P.
2002US-0381666P.
2002US-0389531P.
2002US-0389510P.
2002US-0399516P.
2002US-039151P.
2002US-039151P.
2002US-039152P.
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  7 A;
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  5 C; 6 G; 4 T; 0 U;
    0 Other;
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Shimkets
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic; antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy; antisense gene therapy; respiratory; lung; adenosine sensitivity; antisense gene therapy; respiratory; bronchoconstriction; lung allergy; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
                          Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention comprises isolated human gene sequences and PCR primer sequences which can be used to detect single nucleotide polymorphisms (SNPs). The DNA sequences of the invention are useful for detecting SI existing in human genes and for the diagnosis of human disease. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Polynucleotide for detecting single nucleotide polymorphisms existing human gene, contains isolated human gene having specified sequence.
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17; Conserv
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Tang
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Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     antibacterial; immunosuppressive; cell proliferation inhibitor; immune response inhibitor; inflammatory response inhibitor; multimeric cytokine receptor; inflammatory response inhibitor; cancer; cytokine-binding domain; class I cytokine receptor; haematopoletic cell zcytor17lig-induced proliferation; zcytor17lig-induced differentiation; hematopoletic progenitor cell; zcytor17lig-induced inflammation; inflammatory disease; inflammatory bowel disease; ulcerative colitis; crohn's disease; atopic dermatitis; eczema; psoriasis; endotoxaemia; septicaemia; toxic shock syndrome; zcytor17lig; zcytor17; primer; ss.
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   (SPRE/)
(GAOZ/)
(KUIJ/)
(DASO/)
(GRAN/)
                                                                                                                                                                                    18-JAN-2002; 2002US-0350325P
14-JUN-2002; 2002US-0389108P
19-DEC-2002; 2002US-0435361P
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                                                                                                                                                                                                                                                                                                                21-JAN-2003; 2003US-00351157
                                                                                                                                                                                                                                                                                                                                                                                20-NOV-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                         US2003215838-A1
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DASOVICH M M.
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Pred. No. 1
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CC nucleotide is complementary to the nucleotide at the variant site and the Cf first and second fluorophore borne by the extension product are brought into an energy transfer relationship while the primer is hybridised to CC the target nucleic acid, where the first and second fluorophore comprise a donor and an acceptor fluorophore which have a donor-acceptor spacing in the extension product of less than 18 nucleotides, the donor CC fluorophore having a high extinction coefficient and a low fluorescence CC quantum yield, and detecting the presence or absence of the double-CC labelled extension product, the presence or absence of the double-CC labelled extension product, the presence or absence of the double-CC labelled extension product indicating the identity of the nucleotide at the variant site. The methods are useful for a variety of applications consider the variant site. The methods are useful for other applications in which specific sequence information is of value, including detection of cpathogens, paternity disputes, prenatal testing and forensic analysis, CC pathogens, paternity disputes, prenatal testing and forensic analysis, CC pathogens, paternity disputes, prenatal testing and forensic analysis, CC pathogens, paternity disputes, prenatal testing and forensic analysis, CC pathogens, paternity disputes, prenatal testing and forensic analysis, CC pathogens, paternity disputes, prenatal testing and forensic analysis, CC pathogens, paternity disputes, prenatal testing and forensic analysis, CC pathogens, paternity disputes, prenatal testing and forensic analysis, CC pathogens, paternity disputes, prenatal testing and forensic analysis, CC pathogens, paternity disputes, prenatal testing and forensic analysis, CC pathogens, paternity disputes, prenatal testing and forensic analysis, CC pathogens, paternity disputes, prenatal testing and forensic analysis, CC pathogens, paternity disputes, prenatal testing and forensic analysis, of creations in the actual risk of an individual known to be compatible.

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Best Local :
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WPI; 2003-874210/81
                                                                           Hung S, Glazer AN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADI39002 standard; DNA; 22
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                                                                                                                                                                                                                                                                                                                                         11-APR-2000; 2000US-00547292.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          template-dependent extension; point mutation; single nucleotide polymorphism; SNP; paternity dispute; prenatal testing: forensic analysis; tissue classification; blood typing; primer.
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                                                                                                                                                                         (DNAS-)
                                                                                                                                                                                                                                                         13-APR-1999;
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17; Conserv
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                                                                                Mathies RA;
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Pred. No. 1.
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Analyzing variant site of target nucleic acid, involves hybridizing primer to target nucleic acid, conducting template-dependent extension primer, detecting presence or absence of double-labeled extension
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Disclosure; Fig 3C; 24pp; English

CC in the extension product of less than 18 mucleotides, the donor control of fluorophore having a high extinction coefficient and a low fluorescence CC quantum yield, and detecting the presence or absence of the double-CC labelled extension product, the presence or absence of the double-CC labelled extension product indicating the identity of the nucleotide at the variant site. The methods are useful for a variety of applications CC such as analysing point mutations and single nucleotide polymorphisms CC (SNPs). The methods are also useful for other applications in which CC specific sequence information is of value, including detection of CC pathogens, paternity disputes, prenatal testing and forensic analysis, CC for developing correlations between certain genotypes and patient CC prognosis, for formulating optimal treatment protocols for a particular CC disease, for assessing the actual risk of an individual known to be susceptible of acquiring a disease and for identifying point mutations in CC resistance to certain therapeutics. The methods are further useful for CC identifying carriers of mutant alleles, for tissue classification or in CC primer used in the method of the invention. dependent extension of the primer in the presence of a polymerase and non extendible nucleotide and detecting the presence of a besonce of the double-labelled extension product indicating the identity of the nucleotide at the variant site. The invention also relates to a method for determining the identity of a nucleotide at a variant site of a target nucleic acid, involving hybridising a primer bearing a first fluorophore to a segment of the primer hybridises to the target nucleic acid, involving hybridises to the target nucleic acid to form a labelled hybrid, where the 3'-end of the primer hybridises to the target nucleic acid immediately adjacent to the variant site, conducting template-cell dependent extension of the primer in the presence of a polymerase and at least one non-extendible nucleotide bearing a second fluorophore, where a double-labelled extension product is formed if the non-extendible nucleotide is complementary to the nucleotide at the variant site and the first and second fluorophore borne by the extension product are brought into an energy transfer relationship while the primer is hybridised to the target nucleic acid, where the first and second fluorophore comprise a donor and an acceptor fluorophore which have a donor-acceptor spacing in the extension product of less than 18 nucleotides the donor of the donor spacing in the extension product of the second fluorophore comprise a donor and an acceptor fluorophore which have a donor-acceptor spacing The invention relates to a method of analysing a variant site of a target nucleic acid, involving hybridising a primer bearing a fluorophore to the

Sequence 22 BP; 7 A; 6 C; 5 G; 3 T; 0 U; 1 Other;

S Matches Query Match Best Local Similarity 3873 ATCAAGCCTTCCAGATCGGAAA 3894 17; Conservative 0.3%; 0 Score 14.6; Pred. No. 1. Mismatches .2e+03 DB 1; Length Indels <u>,</u> Gaps

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ATCCAGCCATCCTGAGNGGAAA 22

ADH93795/c
ID 93795/c
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AC ADH9379
DT 22-APRXX DE Human g
XX human;
XW disease
XX OS Homo sa ADH93795 standard; 22-APR-2004 ADH93795; Human gene PCR (first entry) primer #640. DNA; 22

human; gene sequence; single nucleotide polymorphism; SNP; disease diagnosis; ss; PCR; primer.

Homo sapiens

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RESULT 1893
ADI38998
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                                             The invention relates to a method of analysing a variant site of a target CC nucleic acid, involving hybridising a primer bearing a fluorophore to the carget nucleic acid, to form a labelled hybrid, conducting template-CC dependent extension of the primer in the presence of a polymerase and non cextendible nucleotide and detecting the presence or absence of the CC double-labelled extension product indicating the identity of the CC nucleotide at the variant site. The invention also relates to a method for determining the identity of a nucleotide at a variant site of a target nucleic acid, involving hybridising a primer bearing a first CC fluorophore to a segment of the target nucleic acid to form a labelled cc acid immediately adjacent to the variant site, conducting template-CC dependent extension of the primer hybridises to the target nucleic dependent extension for the variant site, conducting template-CC double-labelled extension product is formed if the non-extendible nucleotide bearing a second fluorophore, where a double-labelled extension product is formed if the non-extendible nucleotide is complementary to the nucleotide at the variant site and the first and second fluorophore borne by the extension product are brought into an energy transfer relationship while the primer is hybridised to the target nucleic acid, where the first and second fluorophore comprise a donor and an acceptor fluorophore which have a donor-acceptor spacing in the extension product of less than 18 nucleotides, the donor
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Best Local Similarity
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               fluorophore having a high extinction coefficient and a low fluorescence quantum yield, and detecting the presence or absence of the double-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2003-874210/81
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                                                                                                            (SNPB). The methods are also useful for other applications in which specific sequence information is of value, including detection of pathogens, paternity disputes, prenatal testing and forensic analysis, for developing correlations between certain genotypes and patient prognosis, for formulating optimal treatment protocols for a particular disease, for assessing the actual risk of an individual known to be susceptible of acquiring a disease and for identifying point mutations i microorganisms that could potentially result in altered pathogenicity or resistance to certain therapeutics. The methods are further useful for identifying carriers of mutant alleles, for tissue classification or in blood typing. This sequence represents a cyanine (CYA) dye-labelled primer used in the method of the invention.
                                                                                                                                                                                                                                                                                                                                            labelled extension product indicating the identity of the nucleotide the variant site. The methods are useful for a variety of application such as analysing point mutations and single nucleotide polymorphisms
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                                                                              1 Other,
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3873 ATCAAGCCTTCCAGATCGGAAA 3894
ATCCAGCCATCCTGAGNGGAAA 22
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Cyanine; CYA; Cyanine 22-APR-2004 ADI39001 standard; (CYA) (first entry) dye-labelled primer #5. DNA; 22

Synthetic template-dependent extension; point mutation; single nucleotide polymorphism; SNP; paternity dispute; prenatal testing; forensic analysis; tissue classification; blood typing; primer. dye-labelled primer; ss; fluorophore;

US6573047-B1

11-APR-2000; 2000US-00547292 03-JUN-2003

13-APR-1999; 99US-0129129P

(DNAS-)

Hung S, Glazer AN, Mathies R

2003-874210/81

Analyzing variant site of target nucleic acid, involves hybridizing primer to target nucleic acid, conducting template-dependent extens primer, detecting presence or absence of double-labeled extension extension of.

Disclosure; Fig 3C; 24pp; English

The invention relates to a method of analysing a variant site of a t nucleic acid, involving hybridising a primer bearing a fluorophore t target nucleic acid to form a labelled hybrid, conducting template-dependent extension of the primer in the presence of a polymerase are extendible nucleotide and detecting the presence or absence of the double-labelled extension product indicating the identity of the nucleotide at the variant site. The invention also relates to a methor determining the identity of a nucleotide at a variant site of a and target non

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RESULT 1891
ADG17583/c
This invention relates to a novel isolated DNA sequence and the proteins encoded by them. The sequences disclosed may be useful during the development of compounds with a neuroprotective, ophthalmological, cytostatic, cardiant or antiarrhythmic activity. In addition the sequences may be useful for gene therapy. Specifically claimed is an isolated DNA comprising any of the 11 fully defined sequences of 1006-7062 bp given in the specification. The polymucleotide encodes a polypeptide comprising any of the 11 fully defined sequences of 89-1707 amino acids given in the specification. The DNA and protein are useful as molecular markers, as drug targets, and for detecting, diagnosing, staging, monitoring, prognosticating, preventing, treating or determining
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           neuroprotective; ophthalmological; cytostatic; cardiant; antiarrhythmic; gene therapy; molecular marker; drug target; detecting; diagnosing; stagging; monitoring; prognosticating; preventing; treating; disease predisposition; abnormal gene expression; human; neurological disorder; visual disorder; myopathy; heart failure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            some bacterial and protozoa infections. Recombinant heparanase can also be used to neutralise plasma heparin, as a potential replacement of protamine. Sequences of the invention are used in protein therapy. The present sequence is human heparanase DNA amplifying PCR primer used in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                24-MAY-2002; 2002US-0382614P.
10-JUN-2002; 2002US-00164717.
13-JUN-2002; 2002US-00167631.
24-JUN-2002; 2002US-00177917.
30-JUL-2002; 2002US-0399125P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADG17583 standard; DNA; 22
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   arrhythmia; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New expressed polynucleotides and polypeptides (e.g. OTB0949) useful as molecular markers or as drug targets, for research, or for diagnosing,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Jay G,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-APR-2002; 2002US-00112372.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                01-APR-2003; 2003WO-US009921.
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                                                                                                                                                                                                                                                                                                                                                                           Disclosure; SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                               preventing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (ORIG-) ORIGENE TECHNOLOGIES INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                nting or treating cancer).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
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Pred. No. 1.2e+03;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               expression
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                       The invention relates to human keratinocyte derived interferon (KDI; ADF94966) and nucleic acids encoding it (ADF94965). The KDI gene is clocated on chromosome 9g22. The invention also relates to sequences at the test of the kDI nucleic acid and protein sequences; a colypeptide comprising an epitope-bearing portion of KDI; recombinant vectors and host cells comprising a KDI nucleic acid sequence; a method for the recombinant expression of KDI proteins; a KDI-specific antibody; KDI agonists and antagonists; use of KDI nucleic acids or proteins for treating medical conditions; a method for the diagnosis of a pathological condition or susceptibility to a pathological condition; and methods of creening for KDI binding partners. The KDI polypeptides and condition, and methods of treating or ameliorating a medical condition, such as an immune-related disorder, cancer, or a viral infection or viral exposure. The present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human keratinocyte derived interferon; human KDI; agonist; antagonist; inding partner identification; immune-related disorder; cancer; viral infection; viral exposure; immunomodulator; virucide; cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  gene therapy; interferon alpha 2; expression analysis; quantitative
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                                                                                                                                                                                                                                                                                                                             New isolated keratinocyte derived interferon (KDI) polypeptide, useful for preventing, treating or ameliorating a medical condition, such as immune-related disorder, a viral infection, a viral exposure or cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                      Lafleur DW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20-JUL-2001;
06-DEC-2001;
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                                                                                                                                                                                                                                                                                              Example 5; SEQ ID NO 50; 398pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            19-JUL-2002; 2002WO-US023214.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (HUMA-) HUMAN GENOME SCI INC
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2001US-0336165P.
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Pred. No. 1.2e
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XX DF4747
XX POLYBAC
XX PF 04-MAR-
XX PF 04-MAR-
XX (DOKU-)
PA (AJIN )
XX WPI; 20
XX WPI; 20
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25-APR-2002;
19-DEC-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to a novel isolated zcytor17 ligand polypeptide. A polypeptide of the invention has antiinflammatory, dermatological, immunosuppressive, and antimicrobial activity, and may have a use in a vaccine. The polypeptide is useful for treating inflammatory diseases, such as inflammatory bowel disease, ulcerative colitis, Crohn's disease, atopic dermatitis, eczema, psoriasis, endotoxaemia, septicaemia, toxic shock syndrome or infectious diseases. The present sequence is used in
                                       Manufacturing target substance involves cultivating Corynebacterium thermoaminogenes strain modified to reduce accumulation of polysacci in liquid medium and collecting target substance accumulated in med
                                                                                                                                                                                                                                                                                                                            C. efficiens capD PCR primer SEQ ID NO:9.
                                                                                                                                                                                                                                                                                                                                                                                                           ADF47473
                                                                                                                          (DOKU-)
                                                                                                                                                                                            04-MAR-2002; 2002JP-00057862
                                                                                                                                                                                                                      09-SEP-2003
                                                                                                                                                                                                                                                                        Corynebacterium efficiens
                                                                                                                                                                                                                                                                                                   polysaccharide synthetase;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2003-618179/58
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (ZYMO ) ZYMOGENETICS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2289
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               exemplification of the invention.
                                                                                                2003-868990/81.
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Gross
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AJINOMOTO KK.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           atopic dermatitis, eczema, psoriasis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BP; 8 A; 8 C; 3 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQ ID NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2002US-0375323P.
2002US-0435315P.
                                                                                                                                                                 2002JP-00057862.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2002US-0350325P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2003WO-US001984.
                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Kuijper
                                                                                                                                                                                                                                                                                                                                                                                                           DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JL, Da
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  65; 372pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                             22
                                                                                                                                                                                                                                                                                                   polysaccharide; ss;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Dasovich MM,
on SR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 14.6;
Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             22
                                                                                                                                       SEIHIN HYOKA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            .2e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Grant
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                                                                                                                                                                                                                                                                                                   primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              endotoxemia,
                                accumulated in medi:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Hammond
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              septicemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ٥,
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                                                                   Matches
                                                                                     Query Match
Best Local
                                                                                                                                                                                 Substance involving cultivating a strain of Corynebacterium efficiens, c.thermoaminogenes which was modified such that the ability to accumulate polysaccharide which raises the viscosity of the liquid medium was reduced or lost, in a liquid medium, and collecting the target substance accumulated in the culture medium or microbial cells. The method of the invention is useful for manufacturing a target substance such as L-amino acid preferably L-glutamic acid. The method enables manufacture of L-glutamic acid at high temperatures and reduces the viscosity of culture medium. The present sequence is used in the exemplification of the
                                                                                                                                    Sequence 22
                                                                                                                                                                                                                                                                                                                                             invention relates to a novel method for manufacturing
                                   1362 GAGGGTCCTGAGTCTCCGCAC 1382
 22
                                                                                     Similarity
GAGCTTCCTGAGTCTCTTCAC
                                                                                                                                    BP;
                                                                   Conservative
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                                                                                                                                    A; 4 C; 7
                                                                                     81.0%;
                                                                                                   0.3%;
                                                                                                                                    G; 3 T; 0
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                                                                                                   Score 14.6;
                                                                                     Pred.
                                                                   Mismatches
                                                                                     No. 1
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                                                                                     .2e+03
                                                                                                                                    0 Other;
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                                                                   Indels
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ARBSULT 1890
AAD63531/c
ID AAD6353
XX Human;
KW Human;
KW wound h
KW immurode
XX Insingle AAD647
XX 20-SEP-
XX 20-SEP-
XX 20-SEP-
XX AAC640
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; heparanase; tumour cell metastasis; inflammation; autoimmunity; wound healing; angiogenesis; restenosis; Genstmann-Straussler Syndrome; neurodegenerative disease; atherosclerosis; Creutzfeldt-Jakob disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         infection; Scrapie; Alzheimer's disease; protein therapy; cytostatic; immunosuppressive; vulnerary; bactericide; anti-angiogenic; virucide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human heparanase DNA amplifying PCR primer, H/BHIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAD63531;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               12-FEB-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    neuroprotective; protozoacide; PCR; primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DNA;
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US2003180788-A1

08-MAY-2003; 20-SEP-2000; 2000US-00666390. 2001US-00930218. 2003US-00431438

Goldshmidt (HADA-) INSIGHT HADASIT Ó Pecker I, STRATEGY & MARKETING MEDICAL RES SERVICES Vlodavsky I, & DEV. Michal I,

Zcharia

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WPI; 2003-843931/78

The present invention relates to novel jungle red fowl heparanase protein and polynucleotides encoding such proteins. Heparanase sequences can be used to develop treatments for various diseases, to develop diagnostic assays for these diseases and to provide new tools for basic and directed research especially in the fields of medicine and biology. They can be used to develop new drugs to inhibit tumour cell metastasis, inflammation and autoimmunity. Recombinant heparanase offers a potential treatment for wound healing, angiogenesis, restenosis, atherosclerosis, inflammation, Recombinant jungle red fowl (Gallus gallus) heparanase protein, useful for treating cancers, microbial infections and aiding wound healing. Example; Page 13; Opp; English.

diseases (e.g. Genstman)

Genstmann-Straussler Syndrome,

Example 3;

SEQ

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30pp; Japanese

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ADC38588
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                                                               Query Match
Best Local :
                                                   Matches
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                                                                                                                                                    The present invention relates to a method (M) for detecting chromosome translocation. The method comprises amplifying a target nucleic acid sequence from a sample, hybridizing oligonucleotides (ONTS) specific for regions of the translocation to the amplified target, where the ONTs comprise capture tags, extending the ONTs to produce labelled extended ONTs, hybridizing the ONTs to address tags on solid support and detecting the presence of labelled extended ONTs on the solid support and detecting useful for detecting a chromosomal translocation in a target nucleic acid sequence, preferably a cDNA from a biological sample from a human: The chromosome translocation is associated with cancer (e.g. leukaemia) and this method is especially useful for diagnosing cancer, especially
                                                                                                                                                                                                                                                                                                                                               microsphere arrays.
                                                                                                                                                                                                                                                                                                                                                          Detecting chromosome translocations in a target nucleic acid sequence for diagnosing cancers associated with chromosome translocations, by using
                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2003-468806/44.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Translocation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADC38588;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADC38588 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                       Sequence 22
                                                                                                                                                                                                                                                                                                                      Claim 52;
                                                                                                                                                                                                                                                                                                                                                                                                                             Nolan JP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20-NOV-2001; 2001US-0335716P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20-NOV-2002; 2002WO-US037507.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   30-MAY-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO2003044486-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Chromosome translocation; cancer; leukaemia; lymphoma; SBE; primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     18-DEC-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                     (REGC ) UNIV CALIFORNIA
                                                                                                                                            eukaemia, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2309
                        2297 CTGGGAGGCAGAAACCATCAT 2317
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          N
                                                                Similarity
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                                                                                                                                                                                                                                                                                                                    Fig 10; 57pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                             Zhou F;
                                                                                                      BP; 7 A; 4 C; 9 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP; 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SBE primer SEQ ID
                                                                                                                             also lymphoma. The present sequence is a pri (SBE) of the translocation oligonucleotides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ą
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DNA; 22
                                                            0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0.3%;
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Pred. No. 1.
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                                                               Score 14.6;
Pred. No. 1.
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                                                   Mismatches
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                                                                .2e+03
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                                                                             DB 1;
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                                                                           Length 22;
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                                                   Indels
                                                                                                                                            is a primer for single
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                                                   Gaps
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RESULT 1887 ADD69449/c

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ADD68305
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New set of inter-simple sequence repeats (ISSR)-PCR primers i genotyping eukaryotes, useful for genotyping diverse genomes animal systems.
                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 22 BP; 10 A; 2 C; 9 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to a novel set of inter-simple sequence repeats (ISSR)-PCR primers for genotyping eukaryotes. The primers of the invention may be useful for genotyping diverse genomes of plant and animal systems, in particular for distinguishing Basmati rice varieties from non-Basmati rice varieties and traditional Basmati rice varieties from evolved Basmati rice varieties. The current sequence is that of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5' anchored (ISSR)-PCR primer - SEQ
                        WO2003060090-A2
                                               Synthetic.
                                                                                                                                                                                                         ADD68305;
                                                                                                                                                                                                                                 ADD68305 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 1; SEQ ID NO 7; 60pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2003-804317/75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Nagaraju
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             08-APR-2002;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              animal; Basmati rice;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15-JAN-2004
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                                                                          immunosuppressive; antimicrobial; vaccine; inflammatory disease; inflammatory bowel disease; ulcerative colitis; Crohn's disease; atopic dermatitis; eczema; psoriasis; endotoxaemia; septicaemia; toxic shock syndrome; infectious disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                16-OCT-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       inter-simple sequence repeat; ISSR; SSR; PCR; primer; genotyping; plant;
                                                                                                                            ss; PCR; primer; zcytor17; antiinflammatory; dermatological;
                                                                                                                                                    PCR primer relating to the invention ZC39983 SEQ ID NO:65.
                                                                                                                                                                               15-JAN-2004
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                                                                                                                                                                                                                                                                                                                           283
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                                                                                                                                                                                                                                                                                                                 TCTCTCTCTCTTGCTTGGT 303
                                                                                                                                                                                                                                                                                                 TCTCTCTCTCTCGTATCGT
                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                 (ISSR)-PCR primer of the invention.
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                                                                                                                                                                              (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                   DNA;
                                                                                                                                                                              entry)
                                                                                                                                                                                                                                                                                                                                                                 81.0%;
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Pred. No. 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           of plant and
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RESULT 1884
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                                                                       Query Match
Best Local :
                                                          Matches
                                                                                                                                                                   The present invention relates to a method for determining a functional allele profile of a gene in a population. The method comprises identifying the nucleotide sequence of a gene of interest out of genomic DNA from each of a population of individuals identified as having a family history which indicates inheritance of functional alleles of the gene of interest, and rank ordering the frequency of occurrence of each haplotype, where the identity of the alleles containing each haplotype and the determination of their relative frequencies constitutes the functional allele profile of the gene of interest in the population. The method is useful for determining functional allele profiles which are useful in the treatment and diagnosis of diseases, for genetic and pharmacogenetic applications, and for evaluating the degree to which the profile of the gene of interest in the profile which are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  04-AUG-1997;
22-MAY-1998;
04-AUG-1998;
                                                                                                                                                                                                                                                                                                                                                                                                               Determining a functional allele profile of a gene in a population by identifying the nucleotide sequence of a gene of genomic DNA from each the individuals with a family history of functional alleles of the gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Functional allele profile; genetic inheritance; haplotype; population; disease; pharmacogenetic application; selective pressure; human; MSH2; MLH1; BRCA1; BRCA2; PTEN; BAP1; BARD1; p53; PCR; primer; ss.
                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                         Example 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2003-576875/54
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12-FEB-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         08-AUG-2001; 2001US-00923327.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human MLH1 gene PCR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20-NOV-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADA45279 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (ONCO-)
22
                                                      l Similarity
17; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         N
                                                                                                                                              are under selective pressure. The presemer used in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ONCORMED
                                                                                                                  22
                          ACTGAAATCATCAACCCCAAC 3251
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CAGCCAACATCCTGGAGATCC 22
                                                                                                                                                                                                                                                                                                                                                                      Page 10; 28pp; English
                                                                                                                  BP;
                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2000US-00524794
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  97US-00905772.
98US-00084471.
98US-00129134.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              96US-00598591.
97US-00798691.
                                                                                                                3 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      primer
                                                                    0.3%;
                                                                                                                1 C; 6 G; 12 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                22
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                                                         <u>,,</u>
                                                                       Pred. No.
                                                                                     Score 14.6;
                                                         Mismatches
                                                                                                                                                          The present sequence
                                                                       .2e+03
                                                                                   DB 1; Length 22;
                                                       Indels
                                                                                                                                                            represents
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RESULT 1885

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ADA26497.

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CC substrate, in which before transfer the tip is modified to allow the concleic acid to wet the tip and the nucleic acid is modified to chemisorb co or covalently bond to the substrate upon transfer. The method is also consequently bond to the substrate upon transfer. The method is also consequently bend to the substrate upon transfer. The method is also consequently a scanning of modified nucleic acid onto a substrate, by inking a scanning probe microscopic tip with a modified nucleic acid contained the substrate to form a nanoscale consequently in the nucleic acid to the substrate to form a nanoscale consequently a first nucleic acid onto a substrate to form a proposition from a consequently a first nucleic acid onto a substrate to form a deposit with lateral nanoscale features of 1000 mm or less by direct write consoparticle, where the nanoparticle is functionalized with a second nucleic acid which is either complementary to the first or complementary to the substrate is considered to form a nanoarray of the nucleic acid and the hybridization is carried out with the nanoarray of the nucleic acid and the hybridization is corrected to form a nanoarray of the nucleic acid and the hybridization is consistent and descructive methods. The structures can be built up, if desired, without degrading existing structures can be built up, if desired, not needed. Improvements in the consistency and stability of the consolithography can be observed. This sequence represents an example of a nucleic acid in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            nanoscopic tip relative to a substrate so that the tip and substrate approach each other, and the nucleic acid is transferred from the tip to the substrate to generate a stable nucleic acid nanoscale pattern on the substrate which is hybridizable with complementary nucleic acid. The substrate which is hybridizable with complementary nucleic acid. The method is useful for generating nanoscale patterns of nucleic acid on a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to a method of depositing nucleic acid substrate by direct-write nanolithography, by positioning at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Depositing nucleic acid on substrate by direct-write nanolithography, positioning nanoscopic tip relative to substrate, to transfer nucleic acid to substrate and generate stable nucleic acid nanoscale pattern.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure; Page 38;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 30-NOV-2001;
07-MAR-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2003-671287/63
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    patterning;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADA26497;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADA26497 standard; DNA; 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (UYNW-) UNIV NORTHWESTERN TECHNOLOGY TRANSFER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20-NOV-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ξ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Demers ML,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    scanning probe microscopic tip; nanoparticle; nanoarray
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2001US-0337598P.
2002US-0362924P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         nanolithography; nanoscopic tip; nanoscale pattern;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   note= "contains a thiol group (CH2)3SH) at the 5'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     76pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ginger
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              뫄
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           09-OCT-2001; 2001US-0328056P
12-OCT-2001; 2001US-0328849P
15-OCT-2001; 2001US-0339142P
17-OCT-2001; 2001US-0330142P
22-OCT-2001; 2001US-0341058P
24-OCT-2001; 2001US-0343629P
29-OCT-2001; 2001US-0343629P
01-NOV-2001; 2001US-0349575P
01-NOV-2001; 2001US-0349575P
01-OCT-2002; 2002US-0391342P
01-OCT-2002; 2002US-0391342P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 sequence encoding KDI are useful in the diagnosis, prevention and treatment of disorders associated with the aberrant expression of the KDI protein, such as disorders of the immune system, inflammation, cancer, blood disorders, cardiovascular disorders, cerebrovascular diseases, wounds, neurological diseases, bacterial or viral infections and blood vessel growth inhibition. The present sequence represents a PCR primer used in a quantitative PCR (QPCR) reaction in the examples of the present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      05-OCT-2001; 2001US-0327454P.
09-OCT-2001; 2001US-0327917P.
09-OCT-2001; 2001US-0328029P.
The invention describes an isolated polypeptide comprising any of 33 90 1273 amino acid sequences (1) given in the specification or its mature form, a sequence that is at least 95 % identical to (1), or a sequence comprising one or more conservative substitutions in the amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Alsobrook JP, Burgess CE, Catterton E, Cha
Edinger SR, Gerlach VL, Giot L, Gorman L,
Mezes PS, Millet I, Ooi CE, Patturajan M,
Taupier RJ, Zerhusen BD, Zhong H, Zhong M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 22 BP; 2 A; 6 C; 4 G; 10 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                  New DAPK3 polypeptide, useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       02-OCT-2002;
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                                                                                                                                                                                                                                                                                                  preventing
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→ RJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1332 ATTGAAGACAAGGTCAAGGCC 1352
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                                                                                                                                                                                                                                                                                                           cancer.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             entry)
                                                                                                                                                                                                            253pp; English.
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Pred. No. 1
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                                                                                                                                                                                                                                                                                                                                                preparing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Chant JS, constant Chant Chant JS, constant JS
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3321 CAGCCCACAGCCTGGAGCTAC 3341

Matches Query Match

17;

Conservative

0:

Mismatches

Indels

0;

Gaps

0

Local

Similarity

0.3%;

Score 14.6; Pred. No. 1.

1.2e+03

DB

1. 4

Length

22

Sequence 22

BP; 6 A; 9 C; 4 G; 3 T; 0 U; 0 Other;

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RESULT 1883
ACC43827
ID ACC4382
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Matches 17
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                      The specification describes a method of modifying the expression of at a toll-like receptor (TLR) in cells of the human central nervous system (CNS). The method comprises contacting the cells with a TLR-expression modifying agent, selected from substances that are endogenous to the human CNS and its parts or variants, that is capable of altering the expression of a TLR in the cells. The TLR-expression modifying agent is useful for preparing a pharmaceutical composition for retarding or inhibiting a neurodegenerative process and/or stimulating a neurodegenerative process and/or stimulating a neurodegenerative disease, multiple sclerosis or stroke. The present PCR primer was used to amplify cDNA encoding human TLR5. The primer was used to determine the amount of TLR present in human glia cells in a semi-quantitative RT-PCR
                                                                                                                                                                                                                                                                           e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Toll-like receptor; TLR; central nervous system; CNS; neurodegenerative disorder; Alzheimer's disease; Parkinson's Pick's disease; multiple sclerosis; stroke; PCR; primer; 88.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ACC43827 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            sequence of (I). The polypeptide is useful for preparing a composition for treating or preventing e.g. cancer. This sequence represents a primer used to isolate DNA encoding a novel human NOV protein
                                                                                                                                                                                                                                              Disclosure; Page 7; 20pp; English.
                                                                                                                                                                                                                                                                                           influencing neurodegeneration or neuroprotection in the comprises contacting CNS cells with a TLR-expression moderates.
                                                                                                                                                                                                                                                                                                                                                                                                                                                03-SEP-2001; 2001EP-00203325
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                                                                                                                                                                                                                                                                                                                         Modifying the expression of Toll-like receptors (TLR), useful
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Pred. No. 1.
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the human CNS,
n modifying age
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Example

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RESULT 1880
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The present invention relates to the isolation of DNA-binding protein Y I which acts as a collagen accumulation inhibitor. The invention also provides a method for collagen accumulation inhibition, and a method for searching for a substance which regulates the type-I collagen gene transcription regulating ability. The DNA binding protein YB-1 and the polynucleotide sequence encoding it are useful in compositions for inhibiting collagen accumulation, inhibiting transcription of a type-I collagen gene and inhibiting diseases caused by excessive accumulation
                                                                                                                                                         Example
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21-JUL-1999; 99US-00358587.
21-JUL-1999; 99WO-US016424.
20-JAN-2000; 2000US-00487792.
20-JAN-2000; 2000WS-0219621P.
21-JUL-2000; 2000US-0219621P.
24-MAY-2001; 2001US-0292934P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         a collagen, e.g. fibrosis. The present sequence represents a PCR pused to prepare an alpha 1 DNA probe of the human type-I collagen Note: The sequence data for this patent in not represented in the specification but is based on sequence information supplied by the European Patent Office
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human; keratinocyte derived interferon; KDI; immune system disorder; inflammation; cancer; blood disorder; cardiovascular disorder; cerebrovascular disease; wound; neurological disease; viral infection; bacterial infection; blood vesel growth inhibition; immunomodulatory; antiinflammatory; vasotropic; haemostatic; cardiant; vulnerary; cerebroprotective; nootropic; neuroprotective; antibacterial; virucide antiarteriosclerotic; cytostatic; quantitative PCR; QPCR; IFNa2; prime;
                                                                                                                                    New isolated antibody that binds a keratinocyte derived interferon (KD protein, for the diagnosis, prevention and treatment of disorders with aberrant expression of the KDI protein, such as disorders of the immun
                                                                                                                                                                                    WPI;
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The present invention relates to the isolation of human keratinocyte derived interferon (KDI) protein, and the polynuclectide sequences encoding it. The gene encoding thuman KDI maps to chromosome 9. The novel KDI protein is a member of the interferon family. The invention also describes vectors, host cells, and recombinant methods for producing the KDI protein. The invention also discloses methods for identifying agonists and antagonists of KDI activity. An antibody that binds to the KDI protein, the KDI polypeptide sequence, and the polynucleotide

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Query Match
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Watches 17; Conserve
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                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 1878
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     rine invention relates to human and mouse alpha-catenin polypeptides and their associated polynucleotides. The polypeptides and related antibodies are useful for modulating the cadherin-catenin related pathway in selected organs, such as the heart and testis. The nucleic acids and the likelihood of developing cadherin-catenin related diseases. The nucleic acids may also be used to predict the likelihood of developing cancer or in diagnosing cancer, and in gene therapy. The polypeptide, the nucleic acids may also be used to predict the likelihood of developing cancer or in diagnosing cancer, and in gene therapy. The polypeptide, the nucleic acid or the antibody is useful in manufacturing a medicament for treating cadherin-catenin related diseases, such as cancer, cardiomyopathy, specifically dilated cardiomyopathy, and male infertility. Sequences ABK41510-ABK41599 represent PCR primers used to amplify DNA encoding human and mouse alpha-catenin polypeptides, including the CTNNA3 gene which encodes human alpha T-catenin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 22 BP; 2 A; 9 C; 2 G; 9 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New alpha catenin polypeptides and polynucleotides encoding them, useful for predicting, diagnosing or treating cadherin-catenin related diseases, particularly cardiomyopathies, cancer and male infertility.
                                                                                                                                                                                                                             Heparanase; catalytic; cytostatic; antiviral; antibacterial; enzyme; anti-protozoan; neuroprotective; heparin; hpa; chicken; chimeric; human;
                                                                                                                                                                                                                                                                                                                    03-JUL-2002
                                                                                                                                                                                                                                                                                                                                                                                  ABL40752 standard; DNA; 22 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Van Roy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         12-JUL-2000; 2000EP-00202472.
14-JUL-2000; 2000US-0218309P.
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               (INSI-) INSIGHT STRATEGY & MARKETING LTD
                                              20-SEP-2000; 2000US-00666390.
                                                                            16-AUG-2001; 2001US-00930218
                                                                                                                                               US2002034810-A1
                                                                                                                                                                              Homo sapiens
                                                                                                                                                                                                              PCR primer; ss.
                                                                                                                                                                                                                                                                            Human hpa cDNA fragment amplifying primer H/BHIL.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2002-171717/22
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2874 CCCATTATCTCTGACCCTGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   encodes human alpha T-catenin
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0;
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Pred. No. 1.
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ABS55239
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           secreted proteins in heterologous expression systems. The encoded polypeptides can be used to prevent tumour angiogenesis, metastasis and invasion, and to intervene with pathologies associated with impaired heparin-binding growth factors, cellular responses to heparin-binding growth factors, cell interaction with plasma lipoproteins, cellular susceptibility to viral, protozoa and bacterial infections or disintegration of neurodegenerative plaques. The present sequence represents a human heparanase (hpa) cDNA fragment amplifying PCR primer. This is used for generating a chimeric chicken-human heparanase gene
                                                                                                                                                                                                                                                                                                                                              prolactin receptor; PRLR; growth hormone receptor; GHR; transmembrane protein; hormone; prolactin; PRL; growth hormone; Ghomodimerisation; receptor-associated kinase; signalling cascade; rhPRLBP; recombinant hPRLBP; extracellular domain; ECD; cancer; N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 22 BP; 6 A; 6 C; 7 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to an isolated avian and reptile nucleic acid, encoding a polypeptide with heparanase catalytic activity. The signal peptide of the nucleic acid can be used to express membrane-associated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure; Page 13; 39pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nucleic acid encoding avian and reptile heparanase polypeptide is to treat various heparin-related disorders and the signal peptide useful in production of membrane-targeted or secreted recombinant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        17-DEC-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             proteins.
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                                                                                      Clevenger CV,
                                                                                                                                                                 22-DEC-2000; 2000US-0258285P.
                                                                                                                                                                                               21-DEC-2001; 2001US-00029079.
                                                                                                                                                                                                                              29-AUG-2002
                                                                                                                                                                                                                                                         US2002119154-A1
                                                                                                                                                                                                                                                                                       Homo sapiens.
                                                                                                                                                                                                                                                                                                                  hyperprolactinaemia; gigantism;
                                                                                                                                                                                                                                                                                                                                                                                                          PCR; primer; ss; human; prolactin-binding protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                          PCR primer,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABS55239 standard;
                                                                                                                    (CLEV/) CLEVENGER C V.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4448 GGATCGAACACTCATGATGTG 4468
                                                        2002-750044/81.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              22
                                                                                                                                                                                                                                                                                                                   proliferation; diagnosis; somatolactogenic; pituitary
.actinaemia; gigantism; acromegaly; osteopathic.
                                                                                                                                                                                                                                                                                                                                                                                                                                          PRLR-1, used to amplify recombinant human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                        Kline
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DNA;
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                                                                                                                                                                                                                                                                                                                                                                            ein; PRLBP;
tor; GHR;
; growth hormone;
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Novel human prolactin-binding protein, useful for modulating somatolactogenic function and for inhibiting Nb2 cells in an

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RESULT 1876
ABK41524
ID ABK4152
XX
AC ABK4152
XX
AC ABK4152
XX
DT 21-MAY-
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AAF74133
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Best Local Similarity
Matches 17; Conserv
                                                                                                                                                      Query Match
Best Local
                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                              New isolated polynucleotide comprising a polymorphic variant for the solute carrier family 6 neurotransmitter transporter, serotonin member 4 gene for identifying drugs for treating disorders related to expression
             21-MAY-2002
                                                     ABK41524
                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                  recombinant organism that can be used to express SLC6A4 for protein structure analysis and binding studies. A composition comprising a genotyping oligonucleotide is used to detect a polymorphism in the 9
                                                                                                                                                                                                                                               serotonin member 4 (SLC6A4) gene or a fragment of it or a sequence complementary to the first sequence. The invention is used in prod
                                                                                                                                                                                                                                                                   The present invention relates to a polymorphic variant of a reference sequence for the solute carrier family 6 neurotransmitter transporter,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Solute carrier family 6 neurotransmiter transporter; sectonin genotyping; allele specific oligonucleotide; ss.
                                                                                                                                                                                                                                                                                                 Example 1; Page 38; 152pp; English
                                                                                                                                                                                                                                                                                                                                                                                            Denton
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Primer
                                                                                                                                                                                                                                                                                                                                                                                                               (GENA-) GENAISSANCE PHARM INC
                                                                                                                         1013
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                                                                                                      N
                                                                                                                                                                                                                                                                                                                      protein.
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                                                                                                                                                      Similarity
                                                                                                                        GCAAAGCATGGACACCAGTGG 1033
                                                     standard;
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nilarity 81.0%;
Conservative
                                                                                                                                                                                     BP;
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                                                                                                                                              Conservative
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            (first
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                                                                                                                                                                                    9
                                                                                                                                                                                    A;
                                                   DNA;
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            entry)
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Pred. No. 1.
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Pred. No. 1
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                                                                                                                                                       .2e+03;
                                                                                                                                                                                    0 Other;
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                                                                                                                                                                Length 22;
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Human CTNNA3 exon-specific upper
 PCR
primer
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Human; mouse; alpha-catenin; primer; ss; cytostatic; antiinfertility; cadherin-catenin related pathway; heart testis; cancer; gene therapy; cadherin-catenin related disease; specifically dilated cardiomyopathy; cardiomyopathy; male infertility; CTNNAJ; PCR; alpha T-catenin.

Homo sapiens.

WO200204636-A1

17-JAN-2002

28-JUN-2001; 2001WO-EP007392

12-JUL-2000; 14-JUL-2000; 2000EP-00202472 2000US-0218309P

(VLAA-) VLAAMS INTERUNIVERSITAIR INST BIOTECHNOG

Van Roy **'**1 Goossens ço Janssens B Vanpoucke

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New alpha catenin polypeptides and polynucleotides encoding them, useful for predicting, diagnosing or treating cadherin-catenin related diseases, particularly cardiomyopathies, cancer and male infertility.

Example; Page 35; 132pp; English.

The invention relates to human and mouse alpha-catenin polypeptides and their associated polynucleotides. The polypeptides and related antibodies are useful for modularing the cadherin-catenin related pathway in selected organs, such as the heart and testis. The nucleic acids and the antibodies are useful in the diagnosis and/or prediction of the likelihood of developing cadherin-catenin related diseases. The nucleic acids may also be used to predict the likelihood of developing cancer or in diagnosing cancer, and in gene therapy. The polypeptide, the nucleic acid or the antibody is useful in manufacturing a medicament for treating cadherin-catenin related diseases, such as cancer, cardiomyopathy, and male inferrility. Sequences abk41510-ABK41599 represent PCR primers used to amplify DNA encoding human and mouse alpha-catenin polypeptides, including the CTNNA3 gene which encodes human alpha T-catenin

Sequence 22 BP; 2 A; 5 C; 3 G; 12 T; 0 U; 0 Other;

Query Match Best Local S Matches 17 l Similarity 17; Conserv Conservative 0.3%; 0, Score 14.6; Pred. No. 1 Mismatches DB 1; DB Length Indels <u>,</u> Gaps

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5132
N
         CTTTCCTTATGTTGCTTTTTC
CATTGCTTATGTCGTTTTTTC
               5152
22
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RESULT 1877 ABK41594

ABK41594 standard; DNA; 22 ВP

21-MAY-2002 (first entry)

Mouse alpha-catenin DNA PCR primer #18.

cadherin-catenin related pathway; heart testis; cancer; gene therapy; cadherin-catenin related disease; specifically dilated cardiomyopathy; cardiomyopathy; male infertility; CTNNA3; PCR; alpha T-catenin. mouse; alpha-catenin; primer; 88; cytostatic; antiinfertility; testis; cancer; gene therapy;

Mus musculus

Human Osteoclastogenesis Inhibitory Factor nucleotides, comprising single nucleotide polymorphisms, useful for studying e.g. osteoporosis, Paget's

Page

rheumatoid arthritis.

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RESULT 1873
AAH39817
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Single nucleotide polymorphism; SNP; single nucleotide primer extension; SNPE; genotyping; agammaglobulinaemia; diabetes insipidus; cancer; Lesch-Nyhan syndrome; muscular dystrophy; familial hypercholesterolaemia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present sequence is a primer used to isolate polymorphic regions of the human osteoclastogenesis inhibitory factor (TNFRSF11B). Polynucleotides comprising one or more of twenty four novel single nucleotide polymorphisms in the TNFRSF11B gene have been identified. TNFRSF11B regulate osteoclast recruitment and function. An understanding of variations in the gene should thus be useful in developing new therapies for metabolic disorders caused by abnormal osteoclast recruitment and function such as osteoporosis, metastatic bone disease,
   oligonucleotides of the SNP flanking sequence, the oligonucleotides are
                                                             Sequences AAH37205 - AAH40944 represent PCR primers, single nucleotide primer extension (SNPE) primers, and the sequences of regions flanking sites of single nucleotide polymorphisms SNPs. The present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAH39817;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 22 BP; 0 A; 10 C; 3 G; 9 T; 0 U; 0 Other;
                                                                                                                                                                            New genotyping oligonucleotide, useful for detecting the presence, absence or identity of single polynucleotide polymorphism in a nuc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SNP specific upper PCR primer SEQ ID 2613.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      14-AUG-2001
                                                                                                                                Claim
                                                                                                                                                                                                                                                           Picoult-Newburg L,
                                                                                                                                                                                                                                                                                                                                                         13-OCT-2000; 2000WO-US028436
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    polycystic kidney disease; osteogenesis imperfecta; autoimmune disease; acute intermittent porphyria; rheumatoid arthritis; multiple sclerosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAH39817 standard;
                                                   includes kits for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        inflammation;
ludes kits for determining the presence or absence of a SNP, using the gonucleotides of the invention. The PCR primers are used to amplify a flanking sequence, the SNPE primer is used as a genotyping primer oligonucleotides are useful for genotyping a nucleic acid sample by
                                                                                                                                                                                                                                                                                                                                                                                                                                                        sapiens
                                                                                                                                                                                                                              2001-290930/30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   271
                                                                                                                               1; Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17;
                                                                                                                                                                                                                                                                                            ORCHID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               disease,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCTCTCTCTTTCTCTCTCTCT 291
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TCTCCCTCTCTCGCTGTCT 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        torensic
                                                                                                                             63; 83pp; English
                                                                                                                                                                                                                                                                                            BIOSCIENCES INC.
                                                                                                                                                                                                                                                                                                                          99US-0160096P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               rheumatoid arthritis and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      entry)
                                                                                                                                                                                                                                                              Poh1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              81.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      investigation; paternity analysis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22
                                                                                                                                                                                                                                                              3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 14.6;
Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .2e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             periodontal bone disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PCR primer; ss
                                                                                                                                                                            in a nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
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(AVET) AVENTIS PHARMA SA.

Rosier-Montus

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Arnould-Reguigne I,

Prades

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25-MAY-2000;

2000WO-FR001426

25-MAY-1999;

99FR-00006587. 99US-0139450P.

.6-JUN-1999;

Clepet Denefle P,

WPI; 2001-025161/03

Sequence used

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illustrate 22

invention

The present invention relates to coding sequences for human g chromosome 9q31-34 (ABN99375-ABN93455). The genes are likely involved in diseases of plasmatic lipoprotein metabolism, e.g reverse transport of cholesterol. The present sequence is a P

e.g. t

primer

genes

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Claim 9; Page 226; 269pp;

French

New nucleic acid derived from and drug screening, derived filipoprotein metabolism.

from

genes

human

chromosome

romosome 9, implicated

used e.g. for in disorders

for diagnosis ers of

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CC performing a single-nucleotide primer extension reaction. The coligonucleotides are useful for determining the presence, absence or identity of a SNP and for genotyping nucleic acid samples, for e.g. to CC assess by association analysis the genotype of an individual or group of CC caused by one or more SNPs. Phenotypic traits include diseases e.g. CC agammaglobulinaemia, diabetes insipidus, Lesch-Nyhan syndrome, muscular CC dystrophy, familial hypercholesterolaemia, polycystic kidney disease, costeogenesis imperfects and acute intermittent porphyria. Phenotypic traits also include symptoms of or susceptibility to multifactorial CC disease of which a component is or may be genetic such as autoimmune CC diseases, including, rheumatoid arthritis, multiple sclerosis, CC inflammation, cancer, nervous system diseases and infection by pathogenic CC microorganism. The method is also useful in forensic investigations and CC paternity analysis. The present sequence represents a PCR primer specific for a human SNP containing DNA sequence
Sequence
22 BP;
3 A; 6 C; 6 G; 7 T; 0 U; 0 Other;
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Matches
                                              Query Match
                                       Local
              4999
                             1 Similarity
17; Conserv
              TGCTCTCCAGCCTGGCTGCCA 5019
                               Conservative
                                      0.3%;
                               0
                                       Score 14.6;
Pred. No. 1.
22
                                Mismatches
                                       .2e+03
                                                DB 1;
                                               Length
                                Indels
                                                22;
                               0
                               Gaps
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0

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RESULT 1874
ABN93500
30-NOV-2000
                                                                                                             cholesterol transport disorder; PCR; primer;
                                                                                                                             Human; chromosome 9q31-34; lipoprotein metabolism disorder;
                                                                                                                                                                  Human gene GS913839 PCR primer
                                                                                                                                                                                                          23-JUL-2002
                                                                                                                                                                                                                                                                                    ABN93500
                                   WO200071710-A2
                                                                        Homo sapiens.
                                                                                                                                                                                                                                                                                    standard; DNA;
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                                                                                                                                                                                                                                                                                      22 BP
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                                                                                                                                                                                                                       RESULT 1871
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ID ABA03658 standard; DNA; 22
                                                                                                                                                                                                                                                                                    Query Match
Best Local S
Matches 17
                                                                                                Human; keratinocyte derived interferon; KDI; viral infection; lympimmune system related disorder; cancer; multiple sclerosis; AIDS; hepatitis; Cryptosporidium parvum infection; leukaemia; arthritis; diabetes; allergy; chronic myelogenous leukaemia; PCR primer; ss.
21-JUL-1999;
21-JUL-1999;
                                                                                                                                                                                                     AAF72366 standard;
                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                       The invention relates to a novel mammalian protein, designated A-C1, and the polynucleotide encoding it. The protein inhibits the growth of cells transformed by H-ras, and so inhibits the development of cancer. The A-C: gene is expressed specifically in chondrogenic cells. The present sequence is a primer used in an example illustrating the invention
                          20-JAN-2000; 2000WO-US001239
                                                              WO200107608-A1
                                                                                                                                               PCR primer specific for IFNa2 gene
                                                                                                                                                                 23-APR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                New mammalian peptide and its encoding polynucleotide, useful inhibiting cancerization of cells by H-ras.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         H-ras
                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2001-605312/69.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                04-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  02-NOV-2000; 2000JP-00336437.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    17-JUL-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      JP2001190283-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; A-C1; cytostatic; cancer; cell growth inhibition;
H-ras inhibition; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       12-FEB-2002
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                                                                                                                                                                                                                                                                                     l Similarity
17; Conserv
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                                                                                                                                                                                                                                                                 CCAAGTGCTGTGCTAAGTGCT 4489
                                                                                                                                                                                                                                                  CCAAGTACAGTGCCCAGTGCT 2
                                                                                                                                                                                                                                                                                                                         22
                                                                                                                                                                                                                                                                                                                                                                                              Page
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              PHARM INC.
                                                                                                                                                                                                                                                                                                                        BP; 4
                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
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99WS-00358587.
99WO-US016424.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   primer #1.
                                                                                                                                                                                                                                                                                                                                                                                              15; 18pp; Japanese
                                                                                                                                                                                                                                                                                                                         Þ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PCR primer; ss.
                                                                                                                                                                                                     DNA;
                                                                                                                                                                                                                                                                                            0.3%;
                                                                                                                                                                                                                                                                                                                        6 C; 7 G; 5
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                                                                                                                                                                                                                                                                                            Score 14.6; DB 1;
Pred. No. 1.2e+03;
                                                                                                                                                                                                                                                                                     Mismatches
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                                                                                                                                               SEQ
                                                                                                                                                                                                                                                                                          1.2e+03;
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                                                                                                                                                                                                                                                                                                                       0 Other;
                                                                                                                                                                                                                                                                                                      Length 22;
                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                    0,
                                                                                                                            lymphoma;
                                                                                                                                                                                                                                                                                    Gaps
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This invention relates to human polynucleotide sequence AAF7233 which CC encodes keratinocyte derived interferon (KDI) protein AAB49774, which is CC a member of the interferon family. AAF7238 represents the codon CC optimised sequence of KDI. The human KDI gene is located on chromosome 9. CC The specification includes KDI related protein sequences AAB4975 - CC AAB49789, Also given in the specification are primer, probe and CC polynucleotide sequences represented by AAF72330 (excluding CC polynucleotide sequences represented by AAF72334 AAF72370 (excluding CC sequence of the invention. The KDI polypeptide is used to treat viral CC sequence of the protein and polynucleotide may be used to prevent, treat or ameliorate a medical condition such as immune system-related CC disorder, viral infection, viral exposure and cancer in a mammal. CC Specific disorders which can be treated by KDI include multiple CC sclerosis, lymphoma, acquired immune deficiency syndrome, viral CC hepatitis, Cryptosporidium parvum infection, chronic myelogenous cCC leukaemia, arthritis, diabetes and allergies
  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                              Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Isolated keratinocyte derived interferon protein and polynucleotide used to prevent, treat or ameliorate an immune system-related disorder, viral
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        to prevent, treat or amel:
infection, viral exposure
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (HUMA-) HUMAN GENOME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2001-138557/14.
                                                                                                                                                                                                                                                                                                                                                                                                                            5; Page 187; 303pp; English.
    22
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  BP;
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A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SCI
6 C; 4 G; 10 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Lafleur DW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          and cancer.
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Matches Query Match Best Local (1332 ATTGAAGACAAGGTCAAGGCC 1352 22 Similarity AGTAAAGCAAAGGTCAAGGCC Conservative 0.3%; 0; Score 14.6; Pred. No. 1. Mismatches .2e+03 DB 1; Length 22; Indels 0 Gaps 0

RESULT 1872 AAF70162 Human; TNPRSF11B; osteoclastogenesis inhibitory factor; single nucleotide polymorphism; SNP; osteoclast recruitment; osteoclast function; osteopporosis; metastatic bone disease; Paget's disease; rheumatoid arthritis; periodontal bone disease; Human TNFRSF11B 18-JAN-2001. 18-APR-2001 AAF70162 standard; WO200104137-A1 Homo sapiens primer; ss. (first entry) gene fragment 3 reverse sequencing DNA; 22 ВP primer.

WPI; 2001-147175/15

Chew A,

Denton RR,

Duda A,

Nandabalan

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JC;

09-JUL-1999;

99US-0143020P

GENAISSANCE

PHARM INC

10-JUL-2000; 2000WO-US018803

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       CC Oligonucleotides AAZ45137-Z45140 specifically hybridise under stringent conditions to one of the matrix metalloproteinase-9 MMP-9 polymorphisms. CC MMP-9 is a zinc-dependent endopeptidase, and is located on chromosome 20. CC MMP activity is associated with inflammatory diseases and MMP-9 is critically is associated with inflammatory diseases and MMP-9 is cc implicated in the pathology of multiple sclerosis. Certain polymorphic CC sequences in the MMP-9 promoter, coding sequence and 3' untranslated cregion of the human MMP-9 gene (see AAZ45145) can affect the severity of atherosclerosis. The invention relates to the presence or absence of one CC variant form of a MMP-9 gene polymorphism (-1562 Cytosine/Threonine). CC detection of this polymorphism can be used for disease prognosis. The CC methods and oligonucleotides are used to detect polymorphisms in the MMP-0 gene. They are useful for the diagnosis and prognosis of diseases CC characterized by metalloproteinase mediated remodelling, such as CC atherosclerosis, tumour invasion and metastasis, inflammatory disease, CC and neurological diseases, particularly those involving demyelination CC such as multiple sclerosis, and arthritic disease. Proteins encoded by CC and neurological diseases, particularly those involving that bind CC sequence, thus identifying compounds which modulate the activity of the CC enzyme. Such occompounds can then be used for variant of a polymorphic CC servme. Such compounds can then be used for variant of a polymorphic CC enzyme. Such compounds can then be used for variant of a polymorphic CC servme. Such compounds can then be used for variant of a polymorphic CC servme. Such compounds can then be used for variant of a polymorphic CC servme. Such compounds which modulate the activity of the convenience of the compounds which modulate the activity of the convenience of the compounds which modulate the activity of the convenience of the compounds which modulate the activity of the convenience of the compounds which modulate the activit
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    methylated pinosylvin (PSM plants) have higher resistance to stress factors such as ozone and pathogenic fungi. This sequence represents a PCR primer used to amplify the P. sylvestris PMT protein described in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 22 BP; 3 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 25; Page 19; 29pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Detection of prognosis of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Zhang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                07-MAY-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          07-MAY-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 28-FEB-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          disease; diagnose; atherosclerosis; tumour; disease; multiple sclerosis; arthritis; ss.
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Pred. No. 1
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by metalloproteinase mediated
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                                                                  Query Match
Best Local
                                                                                                                                                            The present invention describes a radiation hybrid map of the dog (Canine familiaris) genome comprising the genome location of a marker selected from AAA6613 to AAA66942. The radiation hybrid map is useful for identifying and localising dog genes, since it covers approximately 80 % of the dog genome and provides a dense map integrating different types (i.e. Type I and Type II) of markers. The map and the dog genome markers responsible for phenotypic and behavioural traits in dogs, to identify morbid genes, to analyse diseases and identify implicated genes in such diseases and their alleles, and to study dog pedigrees. They may also be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 22 BP; 6 A; 5 C; 5
                                                                                                                                                                                                                                                                                                                                            New radiation hybrid map of the dog, Canine familiaris, for e.g. identifying genes implicated in phenotypic and or in genetic diseases and for studying dog pedigrees.
                                                                                                                                                                                                                                                                                                                                                                                                                               Galibert F,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Canis familiaris.
                                                                                                          Sequence 22
                                                                                                                                            diseases and their alleles, and to study dog pedigrees. useful for isolating corresponding human gene sequences
                                                                                                                                                                                                                                                                                                                  Claim 1; Page 62; 87pp;
                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2000-387821/33.
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Best Local S
Matches 17
                      The present invention describes low adenosine (A) content antisense oligonucleotides and compositions (I) comprising them. In the antisense oligonucleotides the A is replaced by a 'Universal' or alternative base. (I) can have respiratory, bronchodilator, antiinflammatory, analgesic, immunosuppressive, antiasthmatic, hypotensive and cytostatic activities. The antisense oligonucleotides and (I) can be used to down-regulate the expression and or activity of target polypeptides associated with lung/respiratory disorders and malignancies, such as stimulating and activating peptide factors and transmitters, transcription factors,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9849/c
AAF19849
                                                                                                                                                                                                                                                                                                                                                                                                   Low adenosine (A) content antisense oligonucleotides which do not trigger adenosine receptors during metabolism, useful e.g. for treating cancers and respiratory obstructions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Low adenosine antisense oligonucleotide; phosphorothioate; allergy; human; airway disorder; bronchoconstriction; lung inflammation; surfactant depletion; respiratory; bronchodilator; antiinflammatory; immunosuppressive; antiasthmatic; analgesic; hypotensive; cytostatic; respiratory obstruction; pulmonary obstruction; impeded respiration; surfactant hypoproduction; pulmonary vasoconstriction; asthma; RDS; respiratory distress syndrome; pain; cystic fibrosis; allergic rhinitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             enzymes comprising specific mutation which increase its thermostability. Also included in the invention are: 1) a vector comprising a nucleotide sequence encoding the mutant luciferase; 2) a cell transformed with the vector and, 3) a plant comprising the transformed cells; The luciferase enzyme is useful in bioluminescent assays, where it uses the substrate D-luciferin (4,5-dihydro-2-(6-hydroxy-2-benzothiazolyl)-4-thiazole
                                                                                                                                                                                                                                                                                                                                       Claim 14; Page 251; 1592pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2000-679539/66.
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chronic obstructive pulmonary disease; pulmonary infection; bronchitis;
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from Pinus sylvestris and which has pinosylvin-3-O-methyltransferase (PMT) and antifungal activity. (I) is involved in the methylation of pinosylvin. The products of the invention are useful for providing transgenic plants with part protection from pathogenic organisms. The regulation of the activity of PMT is biologically and economically important as it is involved in the methylation of its involved in the methylation of its biologically and economically

Disclosure; Page

9; 15pp;

German.

protein (I) isolated

Plants with

WPI; 2000-350724/30

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                                                                                                                                                                                                                                                                                                      AAA53381 standard; DNA; 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mutant luciferase enzyme comprising specific mutations thermostability, useful in bioluminescent assays.
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                                                                                                                                                                                           bioluminescent
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                                                                                                                                                                                                                               PCR primer
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                     Squirrell DJ,
                                                                                             26-OCT-1999;
                                                                                                                    04-MAY-2000
                                                                                                                                            WO200024878-A2.
                                                                                                                                                                  Photinus pyralis
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                     Murphy MJ, Price
                                              FOR DEFENCE
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                                                                                                                                                                                                                                                                                                      BP
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                                                                                                                                                                                                                             in thermostable luciferase preparation.
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Pred. No. 1.2e+03;
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                      Lowe
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                      White PJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 22;
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RESULT 1865
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                   This sequence represents a PCR primer used in the preparation thermostable mutant luciferase enzyme from Photinus pyralis (I Firefly luciferase catalyses the oxidation of luciferin with resultant production of light. Luciferases (both wild type an recombinant) lose activity quite rapidly when exposed to tempore the production of the p
                                                                                                                                                                                                                                   Mutant luciferase enzyme comprising specific muta thermostability, useful in bioluminescent assays.
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                                                                                                                                                                                 Example 3; Page 19; 40pp;
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                                                                                                                                                                                                                                                                                                                                                                                                 Squirrell DJ,
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Pred. No. 1.
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                                                                                                                                                                                                                                                                 specific mutations which
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                                                                                                      (firefly).
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The

present invention

relates to luciferase

temperatures in

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                                                                                                                                                              CC impaired airways, including lung disease and diseases whose secondary CC effects afflict the lungs of a subject. They can be used for treating CC e.g. ischaemic conditions, pulmonary vasoconstriction, allergies, asthma, CC impeded respiration, respiratory distress syndrome, pain, cystic CC fibrosis, pulmonary hypertension, emphysema, chronic obstructive CC pulmonary disease (COPD), and cancers such as leukaemias, lymphomas, CC carcinomas, and cancers which may metastasise to the lungs, including breast and prostate cancer. The reduction of the adenosine content of the CC onserved the conversion of the adenosine content of the CC release of decxyadenosine which activates adenosine receptors causing bronchoconstriction and inflammation. AAA32313 to AAA3512 represent the CC invention, which correspond to SEQ ID NO:1 to 2815, and then the last 185 cequences are also called SEQ ID NO:1 to 2815, and then the last 185 cequences are also called SEQ ID NO:1 to 185, but the sequences differ CC from the previously named sequences. SEQ ID NO:11 to 1680 (AAA32323 to CAAA3392) are specifically claimed ONs from the present invention on N.B. Sequences given in the disclosure of the present invention do not match CC up with their corresponding SEQ ID NO: sequences given in the sequence
                                                                   Query Match
Best Local Similarity
Matches 17; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention describes a new composition comprising an antisense oligonucleotide (ON) with low adenosine (up to 15%), which targets nucleic acids involved in bronchoconstriction, allergies, and/or inflammation. The ON can have antiinflammatory, antiallergic, antiasthmatic, cytostatic and analgesic activities. The compositions are useful for the treatment of diseases associated with inflammation,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          phosphorothicate; impaired respiration; inflammation; allergy; allergy; disease; bronchoconstriction; inhibitor; antiinflammatory; antiallergic; antiasthmatic; concentration; analgesic; impaired airway; lung disease; ischaemic condition; pulmonary vasoconstriction; asethma; respiratory distress syndrome; pain; cystic fibrosis; emphysema; pulmonary hypertension; chronic obstructive pulmonary disease; COPD;
                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New antisense oligonucleotides useful for treating e.g. pulmonary vasoconstruction, inflammation, allergies, asthma, hypertension, bronchitis, emphysema, respiratory distress syndrome, ischemia or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         03-AUG-1998;
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21
GACCACCACGCCGCCACGGCC 1
                             GCCCACCCCGACGCCGCGGCC 3931
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                                                                                                                                                            BP;
                                                                              Conservative
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                                                                                                 0.3%;
                                                                                                                                                            12 G; 4 T; 0 U;
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                                                                            0
                                                                                                 Score 14.6;
Pred. No. 1.
                                                                              Mismatches
                                                                                                 2e+03
                                                                                                                    DB 1;
                                                                                                                                                            0 Other;
                                                                                                                    Length 22;
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RESULT 1862 AAA53346/c

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mutant luciferase enzyme comprising specific mutations which increase its thermostability, useful in bioluminescent assays.
                                                 PCR primer; luciferase; produce light; firefly;
                                                                                                           25-SEP-2000
                                                                                                                                      AAA53382
                                                                                                                                                                                                                                                                                                                                            Sequence 22
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                                       bioluminescent assay;
                                                                              PCR primer
                                                                                                                                                               AAA53382 standard; DNA; 22
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                                                                                                                                                                                                                                                                                                       Local
                                                                                                                                                                                                                                  22
                                                                                                                                                                                                                                                            12
                                                                                                                                                                                                                                                                                       l Similarity
17; Conserv
                                                                                                                                                                                                                                                    CATCCCACGTGGGTGTCAGCA 32
                                                                                                                                                                                                                                 CATCCCCCTTGGGTGTAATCA
                                                                              E345K-anti used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Page 19;
                                                                                                                                                                                                                                                                                                                                             BP; 6 A; 5 C; 7 G; 4 T; 0 U;
                                                                                                                                                                                                                                                                                         Conservative
                                                                                                         (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Murphy MJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FOR DEFENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   98GB-00023468
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              99WO-GB003538
                                                                                                                                                                                                                                                                                                     81.0%;
                                                                                                                                                                                                                                                                                                                  0.3%;
                                                                                                                                                                 뫄
                                                                              in thermostable luciferase preparation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Price RL,
                                                                                                                                                                                                                                                                                         0,
                                                                                                                                                                                                                                                                                                                  Score 14.6;
                                                                                                                                                                                                                                                                                                       Pred.
                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                       No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Lowe
                                                                                                                                                                                                                                                                                                       .2e+03;
                                                                                                                                                                                                                                                                                                                                             0 Other;
                                                                                                                                                                                                                                                                                                                 DB 1; Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CB,
                                                    thermostable mutant;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             White
                                                                                                                                                                                                                                                                                         Indels
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                                                                                                                                                                                                                                                                                         Gaps
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RESULT 1860
AAX86711
ID AAX8671
XX
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                                                                                      맑
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AAV63715
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                                                                                         Query Match
Best Local (
                                                                                                                                               Matches
                                                                                                                                                                                                                                        This oligonucleotide is specific for the PGK-Neo cassette of pMC5-RKO, a plasmid carrying the mouse melanocortin receptor MC5-R gene (see AAV63708). It was used with a primer (see AAV63704) specific for sequences external to the plasmid to screen AK47 embryonic stem cells following electroporation in the presence of pMC5-RKO. Positive clones were confirmed by Southern analysis. Recombinant targeting vectors were used to produce mice bearing a homozygous disruption of the MC5-R gene locus. Defects on the MC5-RKO mutant mice suggested a direct role for MC5-R in sebaceous glands production. Agonists and antagonists of MC5-R are used to treat disorders of exocrine gland function, e.g. of the lacrimal or sebaceous glands, particularly acne, other skin disorders and 'dry eye', also disorders related to oestrus, mating, gestation and other
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAV63715
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Identifying compounds that bind to melanocortin receptors - such therapeutic agents for treating exocrine disorders like acne.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Melanocortin receptor; G protein coupled receptor; MC5-R; acne; therapy; mouse; pMC5-RKO; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAV63715 standard; DNA; 22 BP.
                AAX86711 standard; DNA;
                                                                                                                                                                                                   Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 1999-080902/07.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         12-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       17-DEC-1998.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WO9856914-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PGK-Neo cassette PCR primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 26-APR-1999
                                                                                                                                                                                                                                 pheromone-related conditions
                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 5; Page 36; 144pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (UYOR-) UNIV OREGON HEALTH SCI.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              13-JUN-1997;
                                                                                                                                                        Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3015 CCTCTCACCCACCATGGGGAG 3035
                                                                                                               3181 AGCAGTGGGAAGTCACTAGCA 3201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              r
                                                                                                                                            l Similarity
17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTTCTCAGCCACCTTGGTGAG
                                                                                      AGGATTGGGAAGACAATAGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Chen W, Low MJ;
                                                                                                                                                                                                     BP; 9 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              97US-0050063P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          98WO-US012098
                                                                                                                                                        0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.3%;
                                                                                                                                                                                                   2 C; 8 G; 3 T; 0 U; 0 Other;
                22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0
                                                                                                                                            0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 14.6; DB 1;
Pred. No. 1.2e+03;
                                                                                                                                                         Score 14.6;
Pred. No. 1.
                                                                                      22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                             Mismatches
                                                                                                                                                         .2e+03
                                                                                                                                                                       DB 1; Length 22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ç
                                                                                                                                             0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                            Gaps
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AAA33727 standard;

DNA;

22 BP

28-JUL-2000 AAA33727;

(first entry)

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RESULT 1861
AAA33727/c
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                                                                                                                                                                                                                                                                 sequences. The amplified sequences were used to demonstrate the sequences. The amplified sequences were used to demonstrate the cinvention. The specification describes a composition of complexes of polynucleotide molecules covalently coupled to ligand moietles (e.g. biotin) that are specifically bound to ligand-binding molecules (e.g. avidin or neutral avidin (neutravidin)) to form a cross-linked structure. The composition allows incorporation of diverse oligonucleotides or polynucleotides into a single complex for concomitant delivery into the same cell. The composition is used to deliver polynucleotides to viable cells. The method and compositions provide a new way of linking DNA molecules and are useful for gene over-expression and non-covalent cloning. The new system is called biotin-avidin networked gene (BANG) system. It is possible that the BANG system can be used to link multiple gene complexes to elicit broader immune reactions, e.g. as DNA vaccines. The BANG system can also be used as a cloning problems associated with eliminates the reading frame shift and cloning problems associated with
                                                                                                                                              Matches
                                                                                                                                                               Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Avidin; biotin; neutravidin; ligand-binding molecule; PCR primer; cross-linked structure; polynucleotide delivery; DNA linking; biotin-avidin networked gene system; BANG system; DNA vaccine; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PCR primer used to amplify luciferase monomers under the T7 promoter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 26-OCT-1999 (first entry)
                                                                                                                                                                                                                    Sequence 22 BP; 6 A; 11 C; 2 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New cross-linked polynucleotide complexes, useful for cell-targeted polynucleotide delivery.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 1999-518369/43.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             10-FEB-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 10-FEB-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    12-AUG-1999.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WO9939744-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAX86711;
                                                                                                                                                                                                                                                          plasmids and vectors
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 3; Page 64; 135pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Luo D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (OHIS ) UNIV OHIO STATE RES FOUND
                                                                                                          2337 CAGTACGCAGACCTCCTGTCC 2357
                                                                         N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Muller MT;
                                                                         CAATACGCAAACCGCCTCTCC 22
                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             98US-0074213P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 99WO-US002673
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             'note= "labelled with biotin'
                                                                                                                                                             0.3%;
                                                                                                                                              0;
                                                                                                                                                                 Score 14.6;
Pred. No. 1
                                                                                                                                                 Mismatches
                                                                                                                                                                   1.2e+03
                                                                                                                                                                                     DB 1;
                                                                                                                                                                                  Length 22;
                                                                                                                                                 Indels
                                                                                                                                                 0
                                                                                                                                                 Gaps
                                                                                                                                                 0
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RESULT 1857
AAX32038/c
ID AAX3203
XX BAP1 ge
XX WO99065
XX WAAUG-PR 04-AUG-PR 04
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                     The invention relates to methods of determining a functional allele profile of a gene in a population. Functional allele profiles comprise the commonly occurring alleles in a population, and the relative frequencies at which such alleles of a given gene occur. The methods are used to identify and determine the frequency of the functional alleles ogenes which display extensive allelic heterogeneity, particularly those implicated in disease or conditions, such as the BRCA1 gene associated with breast cancer, CFTR associated with cystic fibrosis, dystrophin associated with Duchenne muscular dystrophy and Becker muscular described with breast cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 diseases and conditions. Typical diseases and conditions are those associated with impaired respiration and inflammation, including lung diseases, pulmonary vasoconstriction, inflammation, allergic rhinitis, acute asthma, allergies, asthma, impeded respiration, respiratory distress syndrome, pain, cystic fibrosis, pulmonary hypertension, pulmonary vasoconstriction, emphysema, chronic obstructive pulmonary disease (COPD), and cancers such as leukemias, lymphomas, carcinomas e.g. colon cancer, breast cancer, lung cancer, pancreatic cancer, hepatocellular carcinoma, kidney cancer, melanoma, hepatic metastases, a well as all types of cancers which may metastasize or have metastasized to the lungs, including breast and prostate cancer
dystrophy, and p53 associated with Li-Fraumeni syndrome. The methods also be employed for diseases where allelic and genetic heterogeneity exist, such as breast cancer, neurofibromatosis, and hereditary non-
                                                                                                                                                                                                                                                                                                                                                                                                                              Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Determining
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 1999-153820/13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              04-AUG-1997;
22-MAY-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          04-AUG-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11-FEB-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO9906598-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CFTR; cystic fibrosis; dystrophin; Duchenne muscular dystrophy; p53; Becker muscular dystrophy; Li-Fraumeni syndrome; neurofibromatosis; colorectal cancer; MSH2 gene; MLH1 gene; BRCA1 gene; BRCA2 gene;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MLH1 gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           14-JUN-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Allele profile; diagnosis; treatment; pharmacogenetic; breast cancer; CFTR; cystic fibrosis; dystrophin; Duchenne muscular dystrophy; p53;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAX32038 standard; DNA; 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (ONCO-) ONCORMED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3911 GCCCACCCCGACGCCGCGGCC 3931
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 gene;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 Similarity
17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GACCACCACGCCGCCACGGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22 BP; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ng common functional alleles in a population - useful in
of disease associated with allelic heterogeneity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         specific
                                                                                                                                                                                                                                                                                                                                                                                                                        Page 27; 78pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              97US-00905772.
98US-00084471.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          98WO-US016574.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             primer; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; 6 C; 12 G; 4 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       81.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ΒP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 14.6;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2e+03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 1; Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4.
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                                                              The methods can
                                                                                                                                                                                                                                                             The methods are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     e.g.
                                                                                                                                                                                                                               e
f
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RESULT 1858
AAZ32085
ID AAZ3208
XX
CC Containing a NF-kappaB recognising sequence, at least part of 3'-
CC containing a NF-kappaB recognising sequence, at least part of 3'-
CC untranslated region (3'-UTR) of human-induced nitrogen monoxide synthase
CC (hiNOS) and at least part of 3'-flanking region. Also described are: (a)
CC an expression vector containing the above expression-controlling sequence
C; (b) an expression vector containing (1) 5'-flanking region of hiNOS
CC gene containing a promoter region, (2) a reporter gene and (3) the above
CC expression-controlling sequence in this order from the 5'-side; (c) a
CC cell transformed by the above expression vector; (d) a method for
CC screening a substance controlling activation of NF-kappaB in which a cell
CC which has the above expression-controlling sequence and can detect the
CC activation of NF-kappaB is treated with a sample to observe the change in
CC the expressed amount of the reporter gene; (e) a kit for screening a
CC compound controlling activation of NF-kappaB containing the above cell;
CC (f) a compound controlling activation of NF-kappaB prepared by using the
CC above screening method; and (g) a drug composition for treating diseases
CC caused by activation of NF-kappaB containing, with the above compound as
CC caused by activation of NF-kappaB containing, with the above compound as
CC caused by activation of NF-kappaB containing, with the above compound controlling
CC activation of NF-kappaB easily in a high sensitivity. The present
CC sequence represents a PCR primer used in the exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         밁
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 1; Fig 4; 16pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            having
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Method
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 1999-613779/53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    05-OCT-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NF-kappaB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human induced nitrogen monoxide synthase; hiNOS; untranslated region;
NF-kappaB; expression; activation; regulation; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    HiNOS 5'-flanking
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAZ32085
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAZ32085 standard; DNA; 22 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      genes such as MSH2 gene, MLH1 gene, BRCA1 gene, BRCA2 gene and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       disease. Sequences AAX32001-172 represent primers for determining the functional allele profiles of various genes. The primers are specific for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           polyposis colorectal cancer. Identification of functional alleles necessary for identification of mutations which may be implicated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11-JAN-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (SUNR ) SUNTORY LTD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3231 ACTGAAATCATCAACCCCAAC 3251
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              increased
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              of screening a substance controlling activation of NF-kappaB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BP; 3 A; 1 C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            98JP-00090664.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                98JP-00090664.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sensitivity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PCR primer SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6 G;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 14.6;
Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      12 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ..2e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 1;
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Sequence 22

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RESULT 1855
AAX19779
ID AAX1977
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAV35372-V35382 and AAV35385 are PCR primers used in the isolation of a fragment of human inducible nitric oxide synthase (hiNOS) which can be used to screen for potential hiNOS expression regulators. Such regulators have an effect on the modification of the expression (in the presence of a cytokine inducer) of a reporter gene in a human cell line transformed with an expression vector containing (in order from 5'-end): the 5'-flanking region of the hiNOS gene containing 54 bases, the reporter gene and the 3'-untranslated region of the hiNOS gene. Suitable reporter genes include chloramphenical acetyltransferase (CAT), beta-galactosidase (beta hiNOS gene are useful for the treatment of inflammation and sepsis, as antitumour agents and for the inhibition of re-angio-stenosis, and other conditions involving abnormalities of hiNOS expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Screening for regulators of human inducible nitric oxide synthase expression - using human cell line transformed with a reporter gene flanked by 5'-promoter and 3'-non-translated regions of the hiNOS gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Disclosure; Page 24; 56pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Nunokawa Y,
                                                                                                                                                                                                                                                                                                                                                                                   Human immunodeficiency virus antisense oligonucleotide SEQ ID NO:5.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 1998-230314/20
New synthetic oligonucleotide sequences antisense of {\tt HIV-1} genome.
                                                                                                                                                                                                                                                                                                                                                                                                              08-JUN-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAX19779 standard;
                                       WPI; 1999-228890/19
                                                                                                                       19-AUG-1997;
                                                                                                                                                05-AUG-1998;
                                                                                                                                                                           25-FEB-1999
                                                                                                                                                                                                      WO9909154-A2
                                                                                                                                                                                                                                                       modified_base
                                                                                                                                                                                                                                                                                                                                          infection;
                                                                                                                                                                                                                                                                                                                                                        Human
                                                                                                                                                                                                                                                                                                  iuman
                                                                                             (HYBR-) HYBRIDON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3015 CCTCTCACCCACCATGGGGAG 3035
                                                                                                                                                                                                                                                                                                  immunodeficiency virus 1.
                                                                                                                                                                                                                                                                                                                                                      immunodeficiency virus; HIV; phosphorothicate linkage; gag;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CTTCTCAGCCACCTTGGTGAG
                                                                                                                                                                                                                                                                                                                                           antisense
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BP; 3 A; 7 C; 6 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Oikawa
                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                                       97US-00914827
                                                                                                                                                98WO-US016345
                                                                                                                                                                                                                                           /*tag=
                                                                                                                                                                                                                                                                      Location/Qualifiers
                                                                                                                                                                                                                                 /note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0.3%;
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                                                                                                                                                                                                                                                                                                                                          oligonucleotide;
                                                                                                                                                                                                                              a
"phosphorothicate linkages'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    22 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Tanaka
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 14.6;
Pred. No. 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .2e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
              ç
            conserved
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            gag
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            region
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RESULT 1856
AAX54283/c
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      antisense to a conserved gag region of the HIV-1 genome. The anti-
oligonuclectide can be used to treat HIV-1 or HIV-2 infection in
mammal, or inhibit HIV-1 or HIV-2 in a cell. The oligonucleotide
cell toxicity, provokes less immunostimulus than prior art, and i
rich antisense HIV oligonucleotide
The specification describes antisense oligonucleotides (AAX52869-X55271) directed against at least 2 mRNAs selected from target genes, coding and non-coding regions of RNAs corresponding to target genes, gene initiation codons, genomic flanking regions, intron-exon borders, the 5'-end and the juxta-section between coding and non-coding regions and all segments of RNAs encoding proteins associated with one or more diseases, conditions or mixtures. The antisense oligonucleotides may be derived from sequences AAX55272-74. These multiple target oligonucleotides (specifically AAX55180-271) can be used for the antisense treatment of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Antisense oligonucleotide; multiple target; antisense treatm impaired respiration; inflammation; lung disease; pulmonary vasoconstriction; inflammation; allergic rhinitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                              17-SEP-1997;
09-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      colon cancer; breast cancer;
hepatocellular carcinoma; kid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                respiratory distress syndrome; pain; cystic fibrosis; pulmonary hypertension; pulmonary vasoconstriction; emphysema; pulmonary disease; leukemia; lymphoma; carcinoma; chronic obstructive pulmonary disease; leukemia; lymphoma; carcinoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         05-JUL-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAX54283 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 1; Page
                                                                                                                                                                                                                                                                    Nyce
                                                                                                                                                                                                                                                                                                                                                                             17-SEP-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        prostate cancer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               acute asthma; allergy; asthma; impeded respiration
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Endothelial nitric oxide synthase antisense oligonucleotide.
                                                                                                                                                          Disclosure; Page 61; 120pp; English
                                                                                                                                                                                       vasoconstriction.
                                                                                                                                                                                                      New antisense oligonucleotides used
                                                                                                                                                                                                                                    WPI; 1999-229400/19
                                                                                                                                                                                                                                                                                                                                                                                                             25-MAR-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                          WO9913886-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Synthetic.
                                                                                                                                                                                                                                                                                                 (UYEC-)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             l Similarity
17; Conserv
                                                                                                                                                                                                                                                                                                   AIND
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                   EAST CAROLINA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  64; 64pp; English
                                                                                                                                                                                                                                                                                                                              97US-0059160P.
98US-00093972.
                                                                                                                                                                                                                                                                                                                                                                             98WO-US019419.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2 A; 11 C; 1 G; 8 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     represents a synthetic oligonucleotide sequence,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        kidney
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0
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Pred. No. 1.2e
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      lung cancer; pancreatic cancer;
hey cancer; melanoma; hepatic metastasis;
                                                                                                                                                                                                         in treatment of,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1.2e+03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 22;
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                                                                                                                                                                                                       e.g.
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                                                                                                                                                                                                         pulmonary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0,
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RESULT 1852
AAT76492/c
ID AAT7649
XX AAT7649
XX ASTHMA
DE Endothe
XX ASTHMA
KW Chronic
XX Synthet
XX W096401
XX I9-DEC-
XX OF-JUN-
XX W7-JUN-
XX WFI; 1:
XX NTCALM
PT Adenos:
PT Adenos:
PT Adenos:
PT Subject
XX Treatm
PT Adenos:
PT Subject
XX Synthet
XX WFI; 1:
XX Treatm
PT Adenos:
PT Subject
XX Treatm
PT Adenos:
PT Giseas
CC for encit
XX A meth
CC free a:
CC for subject
CC free a:
CC for subject
CC for
RESULT 1853
AAV51547/C
ID AAV5154
XX AAV5154
AC AAV5154
XX 02-FEB-
XX 02-FEB-
XX XX XX
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                                                                                                                                                                                                                                                                                                                                                                                             Best Loc
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A method for treating airway disease in a subject has been produced, which involves the topical administration of an essentially adenosine free antisense oligonucleotide (ON) to the airway epithelium of the subject. The present sequence is an antisense oligonucleotide specific for endothelial nitric oxide. The method can be used to treat airway diseases such as cystic fibrosis, asthma, chronic obstructive pulmonary diseases bronchitis and other airway diseases characterised by an inflammatory response. By eliminating adenosine from the antisense ON, its liberation upon antisense degradation is prevented, thereby preventing adenosine-induced bronchoconstriction in patients with hyper-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Asthma;
chronic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Treatment of airway diseases such as asthma - adenosine-free antisense oligo:nucleotide to a
                         Zea mays genome forward PCR primer #147.
                                                                         02-FEB-1999
                                                                                                                         AAV51547;
                                                                                                                                                                      AAV51547 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Endothelial nitric oxide antisense oligonucleotide
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                                                                                                                                                                                                                                                                                                                                                                                                                   Local
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17; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 airway epithelium; adenosine free; cystic fibrosis;
                                                                                                                                                                                                                                                                                                                                        ecccaccccaaccccccccccc
                                                                                                                                                                                                                                                                                               GACCACCACGCCGCCACGGCC 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          B₽;
                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0 A;
                                                                                                                                                                      DNA;
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Pred. No. 1.2e
O; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0 Other;

    by topically applying
airway epithelium of

                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 22;
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RESULT 1854
AAV35372
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Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                       AAV51401-V51704 are forward PCR primers used to amplify fragments of to Zea mays genome in order to detect polymorphic markers. Such markers be used in the construction of allele-specific primers and probes for amplification or hybridisation, e.g. to determine common or disparate ancestry between 2 or more plants, to monitor the genetic contribution an ancestral plant, to trace the progeny of proprietary plants, in certification of a hybrid plant or to identify the progeny of a back-crossed plant with an ancestral plant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic.
Zea mays.
                                           18-SEP-1997;
                                                                 26-MAR-1998.
                                                                                                                        Synthetic.
                                                                                                                                                        treatment;
                                                                                                                                                                                                             09-OCT-1998
                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 22 BP; 8 A; 3 C; 7 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Brassica species allele-specific useful for plant breeding.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Polymorphic marker; allele-specific; probe; amplification; PCR primer; hybridisation; plant; hybrid certification; genetic contribution; progeny; back-cross; hybrid; ancestry; corn; ss.
(SUNR ) SUNTORY LTD
                     20-SEP-1996;
                                                                                       WO9812313-A1
                                                                                                                                                                 Inducible nitric oxide synthase;
                                                                                                                                                                                         Human INOS
                                                                                                                                                                                                                                    AAV35372;
                                                                                                                                                                                                                                                          AAV35372
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07-MAR-1997;
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                                                                                                            domo sapiens
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                                                                                                                                                                                                                                                        standard;
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                                                                                                                                                        inflammation; sepsis;
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                     96JP-00250697
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97US-00813507
                                           97WO-JP003303
                                                                                                                                                                                        PCR primer
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                                                                                                                                                                                                                                                          DNA;
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                                                                                                                                                                                                              entry)
                                                                                                                                                                                                                                                                                                                                                                    0.3%;
                                                                                                                                                                                                                                                          22 BP
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                                                                                                                                                                                                                                                                                                                                                          0;
                                                                                                                                                                                                                                                                                                                                                                      Score 14.6;
Pred. No. 1
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                                                                                                                                                      hiNOS; human; regulator; expression; antitumour agent; inhibitor; PCR primer;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present sequence represents a PCR primer for single stranded CC conformation polymorphism testing of the BRCA2 cancer susceptibility CC gene. The nucleic acid molecule can be used to construct probes for CC screening cDNA or genomic libraries, sequencing positive clones obtained, and assembling the full length BRCA2 sequence. The BRCA2 nucleic acid comolecules and proteins are useful in a method of medical treatment, CC preferably gene therapy, especially for treating cancer, where the cancer collar melanoma or leukaemia. In particular antisense oligonucleotides capable of hybridising to the BRCA2 nucleic acid, pre-mRNA or mature mRNA are used so that the expression of the BRCA2 nucleic acid is reduced or CC prevented. The nucleic acid molecules are also useful in a method for city susceptibility or predisposition to cancer in a patient. The presence of mutations in a sample of nucleic acid from a patient. The BRCA2 promoter region is useful for screening for CC substances which modulate the expression of nucleic acid under control of CC the promoter. Antibodies are used to determine the presence, amount or CC control of a BRCA2 polypeptide or its mutant forms. The control of or substances which minic the activity of BRCA2 polypeptide, which can be useful to screen for substances which minic the activity of BRCA2 polypeptide, which can be used to descent the presence are useful to screen for substances which minic the activity of BRCA2 polypeptide,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 22 BP; 7 A; 5 C; 4 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Nucleic acid molecules comprising part or all of the BRCA2 cancer susceptibility gene - useful for diagnosis, prognosis or therapeu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 1997-261854/24.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RNA polymerase transcription factor; elongation factor; elongin A; polymerase chain reaction; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               08-JUN-1997
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DNA encoding RNA polymerase transcription factor, Elongin, 15, 18 and kDa subunits - used to modulate transcription rate of RNA polymerase.
                                                                                                                                                                                                                                                                                                       07-SEP-1995;
                                                                                                                                                                                                                                                                                                                                                                          09-SEP-1996;
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                                                                                                                                                                                                                                     (OKLA-) OKLAHOMA MEDICAL RES FOUND.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO9709426-A1
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                                                                                                                                                                                                                                                                                                       95US-00524757
                                                                                                                                                                                                                                                                                                                                                                          96WO-US014522
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    as cancer therapeutics
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                                                                                                                                                                   Bradsher JN
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Pred. No. 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  or therapeutic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0
                               and
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RESULT 1851
AART7166/c
ID AART7166;
XX
AC AAT77166;
XX
AC AAT77166;
XX
DE Batten disease gene exon :
XX
Batten disease; ceroid lii
XX
Batten disease; ceroid lii
XX
DE Batten disease; polymerase (
XX
Synthetic.
XX
V
DE Batten disease; polymerase (
XX
Synthetic.
XX
V
DE BATTEN DISEASE
V
DE GENAR-1997.
XX
V
DE GENAR-1997.
XX
V
DE GEHO ) GEN HOSPITAL CORP
V
DE GETON HOSPITAL CORP
V
DE GETON TASCHNEY LEIDEN.
XX
V
DE GENO ) GEN HOSPITAL CORP
V
DE GETON OF ALL
V
DE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       문
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity
Matches 17; Conservat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Primer ELA1 (AAT60012) contains a sequence located near the 5' end of human umbilical vein endothelial cell (HVVEC) pil0-8 cDNA. It was used with the Anchor primer in the PCR amplification of human liver 5', RACReady cDNA. The PCR product was used as template in a second PCR with the Anchor primer and nested primer ELA2 (AAT60013) in order to obtain the 5' end of human Elongin cDNA. This was combined with a partial clone obtd. by screening HUVEC CDNA, to provide a cDNA clone (AAT59997) for human Elongin B (AAW13851), a subunit of a novel RNA polymerase transcription
                                                                                                                              PCR primers (AAT61331 and AAT77158-86) were designed for amplification the human Batten disease CLN3 gene (see also AAT61306) exons 1-15. The PCR primers for exon 5 are given in AAT77165 and AAT77166. Novel mutations (see also AAT61332-48) have been discovered in the CLN3 gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Batten disease; ceroid lipofuscinosis; CLN3; diagnosis; human; gene therapy; polymerase chain reaction; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Batten disease gene exon 5 PCR primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 22 BP; 1 A; 9 C; 3 G; 9 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 5; Page 40; 99pp; English.
                                                                                                                                                                                                                                                                                   Disclosure; Page 31; 94pp; English.
                                                                                                                                                                                                                                                                                                                                            Batten disease polypeptide - useful to correct absence polypeptide, or as agonist to enhance activity of wild
                                                                  polymorphism analysis and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   factor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (GEHO ) GEN HOSPITAL CORP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Taschner PEM,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    96WO-US013896
                                                                                                     combination of PCR, single strand
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.3%;
            7 C; 5 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           22
                                                                     direct sequencing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Breuning
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0;
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Pred. No. 1
            6 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ¥,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1.2e+03
            0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gusella
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ĮF,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                        conformation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mole
                                                                                                                                                                                                                                                                                                                                               of wild type type polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0;
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Query Match Best Local S Matches

Similarity

0.3%;

Score 14.6; DB 1; Pred. No. 1.2e+03;

Length 22;

of f

of f

Indels

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Conservative

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RESULT 1848
AAT31198
ID AAT3119
XX AAT3119
XC AAT3119
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Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          calcium activated neutral protease (CANP3) belonging to the calpain family. Mutations in the gene induce limb-girdle muscular dystrophy (LGMD) 2 disease. The gene, and fragments of it, can be used in the prevention, treatment, diagnosis and detection of a predisposition to LGMD2 disease. Fifty primers (AA732510-59) were used to specifically amplify the exons and splice junctions of the calpain large subunit 1 gene as well as the regions containing the putative CAT, TATA boxes and the polyadenylation signal. Two primers (AAT32552, AAT32553) were used
                                                                                                                                                                encapsidation; transcomplementation; polymerase chain reaction; PCR, gene therapy; transfer vector; canine foetal cell line; DOGP29; packaging cell line; gag; pol; env; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human novel Calpain large sub:unit 1 gene encoding a calcium dependent protease - used to develop prods. for the diagnosis and treatment of limb -girdle muscular dystrophy 2 disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Calpain; subunit; calcium; protease; mutation; treatment; detection; identification; diagnosis; limg girdle muscular dystrophy; LGMD2; calcium activated neutral protease; CANP; ss.
                                                                                                                                                                                                                                                                                                                                                                   25-MAR-2003
18-FEB-1997
                                                            WO9617071-A1
                                                                                                                                                                                                                                                 Retroviral vector; pFOCH29; LTR; long terminal repeat; neomycin;
                                                                                                                                                                                                                                                                                                                Primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAT31198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The calpain large subunit 1 gene located on chromosome 15 codes for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 16; Page 14; 66pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Beckmann J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  30-MAY-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO9616175-A2.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     22-NOV-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         21-NOV-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (ASFR-) ASSOC FR CONTRE MYOPATHIES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2703
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 N
                                                                                                                                                                                                                                                                                                          for confirming pFOCH29 retroviral vector infection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      exon 22 of the gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GAGTTTCTCAGGTGCTATGCC 2723
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BP; 6 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Richard
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                 (revised)
(first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3 C; 8 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          the
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 14.6;
Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1.2e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
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á
                                                                                             Matches
                                              Query Match
Best Local :
                                                                                                                     Retroviral vector pROCH29 was constructed from pUC19 by insertion of two LTRs from Friend virus, a primer binding site, an encapsidation sequence and viral gag sequences. A neomycin resistance gene derived from retrotransposon Th5 was introduced between the two viral LTRs to produce pROCH29-Neo. The amphotropic packaging cell line psi-CRIP was transfected with pROCH29-Neo and the culture supernatant was able to infect NIH 3T3 fibroblasts and produce infectious viral particles, as confirmed by PCR analysis. The PCR primers in AAT31198 and AAT43698 amplified a 900 bp fragment comprising the end of the gag gene and the proximal two-thirds of neoR from the supernatant of NIH 3T3 cell lysate. (Updated on 25-MAR-2003 to correct PA field.)
                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                        Cell line for encapsidation of retroviral RNA by transcomplementation also new expression vectors for transcomplementation, useful in gene
                                                                                                                                                                                                                                                                                                             Example; Page 25; 86pp; French.
                                                                                                                                                                                                                                                                                                                                                                                                                                    Cohenhaguenauer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  30-NOV-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               30-NOV-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (COHE/)
                                             Local
   4265 TGCTGAGGCTGGAAGAAAAAC 4285
                                al Similarity
17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COHENHAGUENAUER
                                                                                           22 BP; 9 A;
                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  94FR-00014406
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                                                                                                                                                                                                                                                                                                                                                                                                                                       0
                                              81.0%;
                                                                                           4 C; 7
                                                           0.3%;
                                                                                           G; 2 T; 0 U;
                                ..
                                                 Score 14.6;
Pred. No. 1
                                              Pred.
                                 Mismatches
                                                No.
                                              .2e+03;
                                                                                             0 Other;
                                                                DB 1;
                                                             Length
                                 Indels
                                0
                                Gaps
                                 0
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RESULT 1849
AAT92515/c
23-NOV-1995;
14-DEC-1995;
28-AUG-1996;
                                                                                                                                                                                                                                    BRCA2 cancer susceptibility gene; breast cancer; ovarian cancer; gene therapy; prostate cancer; colorectal cancer; ocular melanoma; leukaemia; human; single stranded conformation polymorphism test;
                                                                                                                                                                      Homo
                                                                                                    28-MAY-1997.
                                                                                                                                                                                    Synthetic
                                                                                                                                                                                                                                                                                                         BRCA2 cancer susceptibility
                                                                                                                                                                                                                                                                                                                                             04-FEB-1998
                                                                                                                                                                                                                                                                                                                                                                                                              AAT92515 standard; DNA; 22
                                                                   25-NOV-1996;
                                                                                                                                                                                                                        PCR primer; ss.
                                                                                                                                                                    sapiens
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                                                                                                                                                                                                                                                                                                                                           (first entry)
95GB-00023959.
95GB-00025555.
96GB-00017961.
                                                                 96GB-00024453
                                                                                                                                                                                                                                                                                                         gene
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                                                                                                                                                                                                                                                                                                           exon 11G PCR
                                                                                                                                                                                                                                                                                                         primer R
                                                                                                                                                                                                                                                                                                           for SSCP
                                                                                                                                                                                                                                         SSCP;
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Futreal PA,

Wooster

RF,

Ashworth

,>

Stratton

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(CANC-)

CANCER RES CAMPAIGN TECHNOLOGY. UNIV DUKE.

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RESULT 1845
AAQ23967/c
ID AAQ2396
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              29-AUG-1990;
17-APR-1991;
16-MAY-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               for detecting beta-catenin mutations. The microchip comprises oligonucleotides ADQ26772-seqid:121, which are designed to detect a variety of mutations at mutational hot spots of the beta-catenin gene, fixed on the surface of a solid matrix. beta-catenin, which functions a a downstream transcriptional activator in the Wnt signalling pathway, i a sub-membrane component of the cadherin-mediated cell-cell adhesion system. The beta-catenin microchip of the invention can be used in studies to detect beta-catenin mutations and unravel the signal transduction mechanism and tumourigenesis related to beta-catenin gene, and so is useful in cancer research, for example in elucidation of the Wnt signaling related mechanism. The present sequence is an olicidation of the signal transcription of the categories of the signal of the s
                                                                                             The sequences in AAQ23967 and AAQ23968 are used to amplify the tax gene sequence from human T-cell lymphotrophic virus I (HTLV-I). This family of viruses are linked to certain rare human T-cell malignacies, HTLV-I is linked with a chronic demyelinating disease of the central nervous system (CNS). These primers can also be used to detect possible chronic fatigue immunodysfuction syndrome (CFIDS) - associated virus (CAV) retroviral DNA in CFIDS patients using PCR. (Updated on 25-MAR-2003 to correct PA
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Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   HTLV-I tax gene antisense primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           25-MAR-2003
29-OCT-1992
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New chronic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Defreitas E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          29-AUG-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16-APR-1992.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO9205760-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAQ23967 standard;
                                                                                                                                                                                                                                                                                                                                                                                Disclosure; Page 43; 91pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (WIST-) WISTAR INST ANATOMY & BIOLOGY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAQ23967;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CFIDS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21
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       22
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     treatment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CAV;
       B₽;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BP; 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     fatigue immuno-dysfunction syndrome-associated virus -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (revised)
(first en
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Hilliard
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91US-00686594.
91US-00702161.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          91WO-US006238
       7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      retrovirus; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         detecting missense mutations at beta-catenin codon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.3%;
   2 C; 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5 C; 4 G; 6 T; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                 and prophylaxis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ₿;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BP
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   G; 4 T; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 14.6;
Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                     of.
   U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                     CFIDS infection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    멂
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Query Match

0.3%;

Score 14.6;

DB 1;

Length 22;

RESULT 1847 AAT32553 ID AAT3255

AAT32553 standard;

DNA;

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AAT32553;

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RESULT 1846
AAQ81043
ID AAQ8104
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Matches 17; Conservative
                                                     Matches
                                                                Query Match
Best Local
                                                                                                                              The retroviral vector pFOCH29-neo was constructed by inserting the neomycin resistance gene from retrotransposon Tn5 between the two LTRs derived from Friend marine leukaemia virus proviral sequences. The ability of the vector to infect NH3T3 cells was analysed by PCR using two primer pairs. The first pair (AAQ81043-4) amplified the 900 bp fragment from the end of the retroviral gag gene and comprising the proximal two thirds of the neomycin resistance gene; the second primer pair (AAQ81045-6) amplified the 610 bp fragment comprising the distal third of the NeoR gene and the proximal half of the LTR. (Updated on 25 MAR-2003 to correct PN field.)
                                                                                                       Sequence 22 BP; 9 A; 4 C; 7 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAQ81043;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAQ81043 standard;
                                                                                                                                                                                                                                                                             Example 5; Page 14; 47pp; French.
                                                                                                                                                                                                                                                                                                                    Recombinant retroviral cloning, expression or transfer vector - Friend murine leukaemia virus, useful in gene therapy, e.g. to
                                                                                                                                                                                                                                                                                                                                                           WPI; 1995-045619/07.
                                                                                                                                                                                                                                                                                                                                                                                    Cohen-Haguenauer O,
                                                                                                                                                                                                                                                                                                                                                                                                                                         30-JUN-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             06-JAN-1995.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        transposon Tn5; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Friend murine leukaemia virus; leukemia; FB29 strain; retrovirus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PCR primer to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        25-MAR-2003
28-SEP-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 30-JUN-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FR2707091-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                (COHE/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      :ransfer vector; pFOCH29-neo; neomycin resistance;
                           4265
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2610 CACAGCCCTGTCTTTGCCACA 2630
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        21
                                                     17;
 N
                                                                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                COHEN-HAGUENAUER
                                                                                                                                                                                                                                                                                                          for vaccination.
                           TGCTGAGGCTGGAAGAAAAAC 4285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CCCAACCCTGTCTTTTCCAGA 1
TGCTGACGGGAGAAGAAAAAC
                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (revised)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             amplify part of retroviral vector pFOCH29-neo.
                                                                                                                                                                                                                                                                                                                                                                                                                                          93FR-00008015
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   93FR-00008015
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DNA;
                                                                81.0%;
                                                                                                                                                                                                                                                                                                                                                                                       Heard J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       81.0%;
                                                                              0.3%;
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0; Mismatches 4
                                                                   Pred. No.
                                                                             Score 14.6;
 22
                                                     Mismatches
                                                                .2e+03
                                                                               DB 1;
                                                                           Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      gene therapy;
                                                                               22
                                                                                                                                                                                                                                                                                                                      to express
                                                     0;
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                                                     Gaps
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RESULT 1843
ADQ80807/c
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Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present invention relates to a device that has at least one surface that contacts tissue and/or liquids of the human or animal body and is at least partly coated with a substance that mediates binding of biological materials. The new feature is that this substance is an aptamer. The device is particularly an implant, e.g. a stent, vascular prosthesis, heart valve, joint etc., but may also be a component of an extracorporeal circulation system, a nanomaterial for tissue englineering and vascular surgery, a catheter, contact lens, storage device for blood etc., also a bioreactor for isolation and culture of selected cell types, for production of substances or for growing organ replacements. The present sequence is an aptamer suitable for use in the device of the invention.
                        Selecting an animal for desired genotypic or potential phenotypic properties such as muscle mass and/or fat deposition, comprises to for a single nucleotide polymorphism in intron 3 of the IGF2 gene
Example 1; Page 21; 38pp; English
                                                                                     WPI; 2004-501307/48.
                                                                                                               Andersson L,
                                                                                                                                                                                                                                                                                           EP1437418-A1.
                                                                                                                                                                                                                                                                                                                                                  variation
                                                                                                                                                                                                                                                                                                                                                                                              Sus scrofa
                                                                                                                                                                                                                                                                                                                                                                                                                        Anorectic; Antidiabetic; Muscular; Gene Therapy; CpG island; IGF2 gene intron 3; muscle mass; fat deposition; teat number; obesity; muscle deficiency; diabetes; SNP; single nucleotide polymorphism; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Porcine H19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               23-SEP-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADQ80807
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 15; SEQ ID NO 5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            also new
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                                                                                                                                                                                                     10-JAN-2003;
                                                                                                                                                                                                                                 10-JAN-2003; 2003EP-00075091
                                                                                                                                                                                                                                                              14-JUL-2004.
                                                                                                                                                           (MELI-)
                                                                                                                                                                           (OXFI-)
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                                                                                                                                            ) UNIV LIEGE.
) MELICA HB.
) GENTEC BV.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            coated with aptamers for binding specific biological materials, e.g. as stent or component of extracorporeal circulation system
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GAAGGAGAAAATGAAGAAGGA 2822
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GAAGAAGAAGAAGAAGAA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             21 BP; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             aptamers specific for endothelial precursor cells.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DNA sequence polymorphism oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                      2003EP-00075091
                                                                                                                  Andersson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                     Location/Qualifiers replace(12,T)
/*tag= a
                                                                                                                                                                                                                                                                                                                    /standard_name= "Single_nucleotide_polymorphism"
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                                                                                                                Georges M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             G; 14 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 14.6;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                Buys
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                        testing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            system,
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cc island located in intron 3 of an IGF2 gene, and/or binding of a nuclear factor to an IGF2 gene. The nuclear factor is capable of binding to a stretch of nucleotides which in the wild type pig, mouse or human IGF2 gene is part of an evolutionary conserved CpG island, located in intron 3 of the IGF2 gene. The stretch is functionally equivalent to (ADQ80709). CC The nucleic acid modification in ADQ80709 comprises a G to A transition at IGF2 intron3-nt3072. (M1) is useful for selecting an animal with CC properties related to muscle mass, fat deposition, and/or teat number. CC Also claimed is a method (M2) for modulating mRNA transcription of an IGF2 gene by modulating the activity of an evolutionarily conserved CpG island located in intron 3 of an IGF2 gene and/or modulating binding of a CC nuclear factor to an IGF2 gene. Also claimed is a method (M3) for identifying a compound capable of modulating mRNA transcription of an IGF2 gene in a cell or organism. CC (M3) and (M4) are useful for identifying compounds capable of modulating mRNA transcription of an IGF2 gene in a cell or organism. CC (M3) and (M4) are useful for identifying compounds capable of modulating modulating mRNA transcription of an IGF2 gene and/or modulating binding of a nuclear factor to an IGF2 gene in a cell or organism. CC (M3) and (M4) are useful for identifying compounds capable of modulating mRNA transcription of an IGF2 gene and/or modulating binding of a nuclear factor to an IGF2 gene in a cell or organism. CC (M3) and (M4) are useful for identified are potentially useful for transcription of an appropriate deficiencies and diabetes. The present sequence is an example from the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention relates to a method (M1) for selecting an animal for having desired genotypic or potential phenotypic properties. (M1) comprises testing the animal for the presence of a nucleic acid modification affecting: the activity of an evolutionary conserved CpG
Sequence 21
                                                                                                                                      polymorphism, which was isolated in an example from the invention.
BP; 2 A; 6 C; 10 G; 3 T; 0 U; 0 Other;
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밁 Matches Query Match Best Local Local 3534 CTGCCGCTGACGAAGCCCGAG 3554 21 17; Similarity CTGCCGCTGGCCAAACCCCGCG 1 Conservative 0.3%; 0 Score 14.6; DB 1; Pred. No. 1.1e+03; Mismatches DB 1; 4 Length Indels 21; 0 Gaps

0

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RESULT 1844 ADQ26810/c EP1437417-A1 Synthetic beta-catenin; microchip; cancer; Wnt signaling; Beta-catenin oligonucleotide 33M5, SEQ ID 39 23-SEP-2004 ADQ26810; ADQ26810 14-JUL-2004. standard; (first DNA; entry) 21 88.

26-AUG-2003; 2003EP-00019265

08-JAN-2003; 2003KR-00000987

(NACA-) NAT CANCER CENT

Park J, Kim I, Kang Ħ, Park ŗ

WPI; 2004-527105/51.

Oligonucleotide microchip beta-catenin gene, useful for detecting a variety in cancer research. of. mutations 'n

Claim 4; SEQ ID NO 39; 62pp; English

The present invention relates to a beta-catenin oligonucleotide microchip

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                                                                                                                                                                                  RESULT 1841
ADP48205/c
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Best Local Sim:
Matches 17;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (AMHP) WYETH.
(LIUW/) LIU W.
(WULL/) WU L.
                                                                                                                                                                                                                                                                                                                                                                                             The sequence data for this patent did not form part of the printed specification but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                 Sequence 21 BP; 3 A; 6 C; 4 G; 0 T; 8 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       protein kinase; MRCK1; myotonic dystrophy kinase; Cdc42 binding kinasė; MRCK; kinase-related disease; short inhibitory RNA; siRNA; human; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human MRCK1 anti-sense strand siRNA sequence SeqID303
Homo sapiens
                           protein kinase; MRCK1; myotonic dystrophy kinase; Cdc42 binding kinase;
MRCK; kinase-related disease; short inhibitory RNA; siRNA; human; ss.
                                                                                                         09-SEP-2004
                                                                                                                                                                  ADP48205 standard; RNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; SEQ ID NO 303; 92pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              diagnostics and as a drug target.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New human protein kinase MRCK1 with 65% sequence homology to dystrophy kinase-related Cdc42-binding kinase (MRCK), useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                17-JUN-2004
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                                                                          Human
                                                                                                                                       ADP48205
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Liu W,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  27-NOV-2002; 2002US-0429381P
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                                                                          MRCK1
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                                                                                                                                                                                                                                                                                                                         Similarity
                                                                                                                                                                                                                                           CTACAGCTTGAGCAGGAAGAA 1
                                                                       anti-sense strand siRNA sequence SeqID240
                                                                                                                                                                                                                                                                                                         Conservative
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                                                                                                       (first entry)
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                                                                                                                                                                                                                                                                                                                      Score 14.6; DB 1;
Pred. No. 1.1e+03;
                                                                                                                                                                                                                                                                                                                                      DB 1;
                                                                                                                                                                                                                                                                                                                                   Length 21;
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RESULT 1842
ADQ30711/c
ID ADQ3071
XX ADQ3071
XX ADQ3071
XX Device
XX Device
XX aptamex
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XX ID ADQ3040
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Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This invention relates to a novel isolated polynucleotide comprising a nucleic acid sequence, the human MRCKI gene located at position 11q13, and the novel human protein kinase MRCKI encoded by it. The sequence of the invention has sequence homology to rat myotonic dystrophy kinase-related Cdc42 binding kinase (MRCK). The invention may be useful for diagnosing, prognosing, and treating kinase-related diseases, preferably diseases associated with aberrant expression of MRCKI. The present sequence is that of a short inhibitory (siRNA) sequence which is targeted towards the human MRCKI gene and which is related to the invention. Note: The sequence data for this patent did not form part of the printed specification but was obtained in electronic format directly from WIPO at
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(LIUW/) LIU W.
(WULL/) WU L.
                                                                                                                                                                                                                                                                                                                                                                             Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 21 BP; 3 A; 6 C; 4 G; 0 T; 8 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            diagnostics and as a drug target.
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                                Schluesener H,
                                                                                                                                                                                                                                                                 01-JUL-2004.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Device with substance to aid adhesion of biological material aptamer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       23-SEP-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADQ30711;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; SEQ ID NO 240; 92pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New human protein kinase MRCK1 with 65% sequence homology to dystrophy kinase-related Cdc42-binding kinase (MRCK), useful
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           27-NOV-2002; 2002US-0429381P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WO2004050831-A2
                                                                                                                                            17-DEC-2002;
                                                                                                                                                                                                     10-DEC-2003; 2003WO-EP013989
                                                                                                                                                                                                                                                                                                                       WO2004055153-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                  aptamer; ss;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ftp.wipo.int/pub/published_pct_sequences
                                                                                         (UYTU-) UNIV TUEBINGEN EBERHARD-KARLS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2400 CTACACTTCGAGGAGGAAGAA 2420
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                                                                                                                                                                                                                                                                                                                                                                                                                                  implant; biological material adhesion;
                                                                                                                                            2002DE-01058924.
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                                Wendel H;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.3%;
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Pred. No. 1
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RESULT 1839
ADP47392/c
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ADP08954/c
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Best Local
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                                                                                                                                                                                                                    The invention relates to a novel method for identifying a subject at risk of breast cancer which comprises detecting the presence or absence of one or more polymorphic variations associated with breast cancer in a nucleic acid sample from a subject. The method of the invention has cytostatic applications and may be useful for identifying a risk of breast cancer, as well as therapeutic and prophylactic treatments that specifically target breast cancer, such as gene therapy. The current sequence is that of an Extend primer of the invention which was used to genotype single nucleotide polymorphisms within human laminin alpha 4 (LAMA4) DNA which is located at chromosomal position 6q21.
                                                                                                                                                                                                                                                                                                                                                                                                    Identifying a subject at risk of breast cancer by detecting the presence or absence of one or more nucleotide polymorphic variations, useful for diagnosing, preventing and/or treating breast cancer.
            ADP47392 standard; DNA;
                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2004-441082/41.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            25-NOV-2002; 2002US-0429136P.
24-JUL-2003; 2003US-0490234P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               breast cancer; cytostatic; gene therapy; human; laminin alpha 4; LAMA4; chromosome 6q21; ss; PCR; primer; SNP; single nucleotide polymorphism.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     25-NOV-2003; 2003WO-US037966
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Extend primer 23 used to genotype human laminin alpha 4 polymorphism.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     26-AUG-2004
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                                                                                                                                                    Local
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                                                                                                           1635 GCTGACTCCAAAAAGAGAGAA 1655
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                                                                                  21
                                                                                                                                         l Similarity
17; Conser
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                                                                                                                                                                                                                                                                                                                                                                          4; Page 93; 286pp; English.
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                                                                                  GCTGAATCCAAAATCATAGAA 1
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                                                                                                                                                                                            BP; 4 A;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              88; PCR; primer; SNP; single nucleotide polymorphism.
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Pred. No. 1.
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Pred. No. 1.1e+03;
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                                                                                                                                         Mismatches
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                                                                                                                                                                    This invention relates to a novel method for the rapid identification of CC pathogens occurring in environmental samples or biological samples CC derived from humans and animals. Specifically, it refers to using CC intelligent primers to obtain an amplification product in order that the molecular mass of the amplicon can be determined by mass spectroscopy, CC which in turn identifies the pathogen found in the sample. The present invention describes the rapid detection and identification of an CC instead relies on the use of intelligent primers to target ribosomal RNA CC instead relies on the use of intelligent primers to target ribosomal RNA CC instead relies on the use of intelligent primers to target ribosomal RNA CC instead relies and relies and medical diagnosis which is useful in pharmacogenetic analysis and medical diagnosis (including cancer CC diagnosis based on mutations and polymorphisms), or for detecting single nucleotide polymorphisms in blood typing or stereotyping of viruses. This cligonucleotide sequence is an intelligent PCR primer used to identify invention
                                                                 Matches
                                                                             Query Match
Best Local 9
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18-DEC-2002; 2002US-00325233.
18-DEC-2002; 2002US-00325527.
18-DEC-2002; 2002US-00325527.
18-DEC-2002; 2002US-00326551.
29-JAN-2003; 2003US-0443443P.
30-JAN-2003; 2003US-0443788P.
14-FEB-2003; 2003US-0447523P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ecker DJ,
Crooke ST;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Identifying a pathogen in a biological sample, useful in medical diagnosis, comprises amplifying a nucleic acid from the sample with a pair of intelligent primers, and determining the molecular mass of the amplification product.
                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PCR; ss; primer; pharmacogenetic analysis; medical diagnosis; blood typing; virus stereotyping; pathogen; mass spectroscopy; etiologic agent.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 15; SEQ ID NO 47; 228pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2004-468672/44.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     05-DEC-2003;
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21
                                                              l Similarity
17; Conserva
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2002US-00325527
2002US-00336051
2003US-044343P
2003US-0443739P
2003US-0447529P
2003US-00660122.
                                                              Conservative
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                                                                             0.3%; Score 14.6; DB 1; Length 21; 81.0%; Pred. No. 1.1e+03;
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                                                              Mismatches
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                                                                           .1e+03;
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Ander M. Ander M. Ander Malyankar UM, Burgess Cb, Malyankar UM, Smithson G, Peyman Ja Grosse WM, Shimkets RA, Crab SR, Millet I
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28-FEB-2002; 2002US-0366131P.
20-MAR-2002; 2002US-0366131P.
25-MAR-2002; 2002US-0367753P.
02-APR-2002; 2002US-0369479P.
10-MAY-2002; 2002US-0381664P.
17-MAY-2002; 2002US-0381672P.
28-MAY-2002; 2002US-0381651P.
29-MAY-2002; 2002US-0381651P.
29-MAY-2002; 2002US-0384012P.
19-UUN-2002; 2002US-0390155P.
The invention relates to human NOVX polypeptides and polynucleotides. The isolated nucleic acids can be used to express the novel proteins, to detect novel mRNA or a genetic lesion in a novel gene and to modulate its activity. It can also be used in gene therapy for treating or preventing a pathology associated with the protein or nucleic acid. The disorders include metabolic disorders, diabetes, obesity, infectious diseases,
                                                                                                                                                                                   New isolated polypeptide, useful for treating or preventing a pathology associated with the polypeptide, e.g. diabetes, infectious disease, cancer, neurodegenerative disorders or Alzheimer's disease.
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(BURLY/)
(GERL)
(CASM/)
(CASM/)
(GROS/)
(GROS/
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(MILL/)
(SHEN/)
(PATT/)
(PENA/)
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LAROCHELLE W J
SHIMKETS R A.
CRABTREE J
RASTELLI L.
VOSS E Z.
BOLDOG F L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GORMAN L.
SPYTEK K A.
KEKUDA R.
TAUPIER R J.
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ELLERMAN K.
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MILLET I.
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VERNET C A M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CHAPOVAL
                                                                                                                                                                                                                                                                                                                              Li L, Gorman L, Spytek KA, Kekuda R, Taupier RJ;
DW, Vernet CAM, Catterton E, Miller CE, Shenoy SG;
n M, Pena CEA, Tchernev VT, Padigaru M, Gusev VY;
UM, Burgess CE, Gerlach V, Casman SJ, Rieger DK;
, Smithson G, Peyman JA, Starling G, Rothenberg ME;
e WJ, Shimkets RA, Crabtree J, Rastelli L, Voss EZ;
, Edinger SR, Millet I, Macdougall JR, Ellerman K;
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07-OCT-1996; 09-AUG-1998;

96US-00726531. 98US-00131501.

(JOHN/) JOHN

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28-AUG-2001; 2001US-00941398

06-MAY-2004

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RESULT 1837
ADM9714
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ADM9714

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Matches
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17; Conserv
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Pred. No. 1.
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Providing diabetes, biologically active moiety such as insulin for treating involves administering to mammals immune privileged-cells ically modified to express biologically active moiety.

Example 2; SEQ ID NO 3; 68pp; English.

The invention relates to a method of providing a biologically active moiety by administering cells that are naturally immune privileged and content have been isolated and genetically modified in a laboratory caparatus so as to express biologically modified in a laboratory converse biologically active moiety such that the cells caparatus so as to express biologically active moiety in pharmacologically effective amounts converse biologically active moiety in pharmacologically effective moiety converse biologically active moiety in vivo. The method is useful for treating diseases and conditions requiring protein therapy such as Type I and Type II diabetes (insulin), parkinson's disease (tyrosine hydroxylase), neurodegenerative consultations of the central and sympathetic nervous system (neurotrophins), consemia (crythropoietin), dwarfism (human growth hormone), diabetes consipidus (vasopresin) and haemophilia (Factors VIII and IX). The method is useful for providing hormones, enzymes or drugs to mammals including consense, in need of sustained doses for extended periods. The method is efficient, convenient and cost-effective for site-specific contents of sefficient, convenient and cost-effective for site-specific contents of the present sequence represents a pig beta-actin reverse transcriptase (RI)-PCR primer.

obesity,

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Zhong M, Li I
Anderson DW,
Patturajan M,
Malyankar UM,
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17-SEP-2001;
17-SEP-2001;
17-SEP-2001;
20-SEP-2001;
20-SEP-2001;
25-SEP-2001;
26-SEP-2001;
26-SEP-2002;
25-WAR-2002;
26-WAR-2002;
17-WAY-2002;
17-WAY-2002;
29-WAY-2002;
29-WAY-2002;
29-WAY-2002;
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(CATT/
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KEKUDA R A.
TAUPIER R J.
ANDERSON D W.
TRUPET C A M.
TRUPERTON E.
TO C
                                                                                                                                                                                                                                           MILLER C E.
SHENOY S G.
PATTURAJAN M.
PENA C E A.
TCHERNEY V T.
PADIGARU M.
GUSEV V Y.
MALYANKAR U M.
BURGESS C E.
GERLACH V.
BURGESS C E.
GERLACH V.
CASMAN S J.
RIGGER D K.
GROSSE W M.
SMITHSON G.
PEYMAN J.
STARLING G.
PEYMAN G.
PEYMAN G.
G.
PEYMAN
                                                                                                                       VOSS E Z.
BOLDOG F L.
EDINGER S R.
MILLET I .
MACDOUGALL J
ELLERMAN K.
CHAPOVAL A.
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i L, Gorman L,
, Vernet CAM, (
M, Pena CEA, To
M, Burgess CE,
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2001US-03227816P.
2001US-0322816P.
2001US-0323519P.
2001US-0323636P.
2001US-0323636P.
2001US-0324969P.
2001US-0324969P.
2001US-0324990P.
2002US-0357303P.
2002US-0367733P.
2002US-036613P.
2002US-0367753P.
2002US-0367753P.
2002US-0367753P.
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2002US-0367753P.
2002US-0367753P.
2002US-0367753P.
2002US-03867753P.
2002US-03867753P.
2002US-0381664P.
2002US-0381664P.
2002US-0383651P.
2002US-0383651P.
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2001US-0318219P.
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L, Spytek KA,

1, Catterton E,

Tchernev VT,

E, Gerlach V,
Kekuda R,
Miller CE,
Padigaru M,
Casman SJ,
          ia R,
r CE,
u M,
Taupier RJ;
Shenoy SG;
Gusev VY;
Rieger DK;
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Best Local S
Matches 17
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The invention relates to human NOVX polypeptides and polynucleotides. The isolated nucleic acids can be used to express the novel proteins, to detect novel mRNA or a genetic lesion in a novel gene and to modulate its activity. It can also be used in gene therapy for treating or preventing a pathology associated with the protein or nucleic acid. The disorders include metabolic disorders, diabetes, obseity, infectious diseases, anorexia, cancer, neurodegenerative disorders, lateliner's diseases, parkinson's disease, immune disorders and hasematopoietic disorders. This sequence represents a probe used in analysis of expression of a human NOVX polynucleotide of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Grosse WM, Smithson G, Larochelle WJ, Shimkets Boldog FL, Edinger SR, Chapoval A;
                                                                                                                                                                                                                                                                                                                                                                                          New isolated polypeptide, useful for treating or passociated with the polypeptide, e.g. diabetes, information or Alzheimer's
                                                                                                                                                                                                                                                                                                                                        Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2004-355290/33
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                                                                                                                                                                                                                                                                                                                                        SEQ
                                                                                                                                                                                                                                                                                                                                        ij
                                                                                                                                                                                                                                                                                                                                        NO 436;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Peyman JA, Starling G, Rothenberg RA, Crabtree J, Rastelli L, Voss Millet I, Macdougall JR, Ellerman
                                                                                                                                                                                                                                                                                                                                     552pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           or preventing
                                                                                                                                                                                                                                                                                                                                                                                                                                  infectious
                                                                                                                                                                                                                                                                                                                                                                                                   disease.
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disease,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           pathology
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4032 21 ch 0.3%; 1 Similarity 81.0%; 17; Conservative CAGGAGGATGACCCACCAGGG CCGGAGGAGGGGCCACCAGGG B₽; ب ₽, Ç <u>.</u>. Score 14.6; Pred. No. 1 1052 _ σ Mismatches Η. 0 Ç; .1e+03 DB 1: Length Indels 21; 0 Gaps 0

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0

Other;

anabolic; eating antiparkinsonian; Human NOVX probe 01-JUL-2004 ADN96466; ADN96466 standard; (first #92. antianaemic; DNA; entry) 21 ВP

07-SEP-2001; 07-SEP-2001; 07-SEP-2001; 10-SEP-2001; 11-SEP-2001; 17-SEP-2001; 17-SEP-2001; 19-SEP-2001; 20-SEP-2001; 20-SEP-2001; 25-SEP-2001; 25-SEP-2001; 26-SEP-2001; Human; NOVX; ss; metabolic disorder; diabetes; obesity; infectious disease; amorexia; cancer; neurodegenerative di Alzheimer's disease; parkinson's disease; immune disorder; haematopoietic disorder; antidiabetic; anorectic; antimicr anabolic; eating disorder; cytostatic; neuroprotective; no 06-SEP-2002; 08-APR-2004 US2004067490-A1 2001US-0318120P.
2001US-0318130P.
2001US-0318219P.
2001US-0318430P.
2001US-0318430P.
2001US-03227816P.
2001US-0322816P.
2001US-0323631P.
2001US-0323631P.
2001US-0323636P.
2001US-0323636P.
2001US-0323639P.
2001US-0325091P. 2002US-00236392 cytostatic; neuroprotective; nootropic; antimicrobial; disorder;

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RESULT 1834
ADN96694/c
ID ADN9669
XX AN96694/c
XX Human N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        07-SEP-2001; 2001US-031B120P.
07-SEP-2001; 2001US-031B219P.
07-SEP-2001; 2001US-031B219P.
10-SEP-2001; 2001US-031B430P.
17-SEP-2001; 2001US-031B765P.
17-SEP-2001; 2001US-0322B16P.
17-SEP-2001; 2001US-0322B16P.
20-SEP-2001; 2001US-0323631P.
20-SEP-2001; 2001US-0323631P.
20-SEP-2001; 2001US-0323631P.
20-SEP-2001; 2001US-0323636P.
25-SEP-2001; 2001US-0324969P.
25-SEP-2001; 2001US-0324990P.
26-SEP-2001; 2001US-0324990P.
16-FEB-2002; 2002US-0357303P.
28-FEB-2002; 2002US-0366131P.
29-MAR-2002; 2002US-0366131P.
29-MAR-2002; 2002US-0366131P.
25-MAR-2002; 2002US-0366131P.
25-MAR-2002; 2002US-0366131P.
25-MAR-2002; 2002US-036613P.
17-MAY-2002; 2002US-036613P.
17-MAY-2002; 2002US-036613P.
17-MAY-2002; 2002US-03664P.
17-MAY-2002; 2002US-0381664P.
17-MAY-2002; 2002US-0381664P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; NOVX; 88; metabolic disorder; diabetes; obesity; infectious disease; anorexia; cancer; neurodegenerative disorder; Alzheimer's disease; Parkinson's disease; munne disorder; haematopoietic disorder; antidiabetic; anorectic; antimicrobial; anabolic; eating disorder; cytostatic; neuroprotective; nootropic; antiparkinsonian; antianaemic; probe.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         06-SEP-2002; 2002US-00236392
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(CATT/)
(CATT/)
(MILL/)
(SHEN/)
(PATT/)
(PENA/)
(PADI/)
(GUSE/)
(MALY/)
(BURG/)
(GERL/)
(CASM/)
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(KEKU/)
(TAUP/)
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CATTERTON E.
MILLER C E.
SHENOY S G.
PATTURAJAN M.
PENA C E A.
TCHERNEV V T.
PADIGARU M.
GUSEV V Y.
MALYANKAR U M.
BURGESS C E.
GERLACH V.
CASMAN S J.
RIEGER D K.
GROSSE W M.
SMITHSON G.
                                                                                                                                                                                                                                                                                                                                                                  GORMAN L.
SPYTEK K A.
KEKUDA R.
TAUPIER R J.
ANDERSON D W.
VERNET C A M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ZHONG M
LI L.
GORMAN
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2002US-0384012P
2002US-0390155P
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Zhong M, Li L,
Anderson DW, V
Patturajan M, I
Malyankar UM, I
                                                                                                                                                                     New isolated polypeptide, useful for treating or preventing associated with the polypeptide, e.g. diabetes, infectious of
                                                                                                                                                                                                                                                                                                                                   (PEYM/)
(STAR/)
(ROTH/)
(LARO/)
(SHIM/)
(SHIM/)
(CRAB/)
(RAST/)
(VOSS/)
(BOIN/)
(BDIN/)
(MILL/)
(MILL/)
                                                                                                                                        Example C;
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                                                                                                                                                                                                                             Jrosse m.,
Larochelle WJ, Shimmer
FL, Edinger SR,
                                                                                                                                                                                                                                                                                                                           CHAP/)
                                                                                                       invention relates to human NOVX polypeptides and polynucleotides. The lated nucleic acids can be used to express the novel proteins, to
                                                                                                                                                                                                                                                                                                                          MACDOUGALL J
ELLERMAN K.
CHAPOVAL A.
                                                                                                                                                                                                                                                                                                                                                                                                PEYMAN J A.
STARLING G.
ROTHENBERG M
LAROCHELLE W
SHIMKETS R A
CRABTREE J.
RASTELLI L.
                                                                                                                                                            neurodegenerative
                                                                                                                                                                                                                                                                                                                                                                              VOSS E Z.
BOLDOG F L.
                                                                                                                                                                                                                                                                                                                                                         EDINGER S R.
MILLET I.
                                                                                                                                        SEQ ID NO
                                                                                                                                                                                                                                    i L, Gorman L, Spytek KA, Kekuda R, Taupier RJ;
Vernet CAM, Catterton E, Miller CE, Shenoy SG;
M, Pena CEA, Tchernev VT, Padigaru M, Gusev VY;
M, Burgess CE, Gerlach V, Casman SJ, Rieger DK;
Smithson G, Peyman JA, Starling G, Rothenberg ME;
MJ, Shimkets RA, Crabtree J, Rastelli L, Voss EZ;
Edinger SR, Millet I, Macdougall JR, Ellerman K;
                                                                                                                                                                                                                                                                                                                                               C,
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                                                                                                                                       757; 552pp; English.
                                                                                                                                                             disorders or Alzheimer's disease.
                                                                                                                                                                        disease,
                                                                                                                                                                                 a pathology
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detect novel mRNA or a genetic lesion in a novel gene and to modulate its activity. It can also be used in gene therapy for treating or preventing a pathology associated with the protein or nucleic acid. The disorders include metabolic disorders, diabetes, obesity, infectious diseases, anorexia, cancer, neurodegenerative disorders, Alzheimer's diseases, Parkinson's disease, immune disorders and haematopoietic disorders. This sequence represents a probe used in analysis of expression of a human NOVX polynucleotide of the invention. Sequence 21 BP; A; œ Ç 6 G; 6 T; 0 ς. 0 Other;

Query Match Best Local S Matches 17 4032 l Similarity
17; Conserv CCGGAGGAGGGCCACCAGGG 4052 ilarity 81.0%;
Conservative 0.3%; 0 Pred. No. 1.10); Mismatches Score 14.6; 1.1e+03; DB -4. Length Indels 21; 0 Gaps 0

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21

CAGGAGGATGACCCACCAGGG

RESULT 1835 ADN96373; ADN96373 standard; DNA; 21 BP

Human NOVX probe #61.

(first entry)

ADN96373/
ID ADN9
XX ADN9
XX ADN9
XX O1-J
YX O1-J
XX Huma
XW Huma
XW Huma
XW Huma
XW Alife
KW Alife
KW Alaen
KW Maenti
XX Anti Human; NOVX; ss; metabolic disorder; diabetes; obesity; infectious disease; amorexia; cancer; neurodegenerative disorder; Alzheimer's disease; Parkinson's disease; immune disorder; haematopoietic disorder; antidiabetic; anorectic; antimicrobial; haematopoietic disorder; cytostatic; neuroprotective; nootropic antidiabetic; eating disorder; cytostatic; neuroprotective; nootropic antiparkinsonian;

omo sapiens

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RESULT 1833
ADN96451/c
ID ADN96451;
XX AC ADN96451;
XX AC ADN96451;
XX AC ADN96451;
XX DT 01-JUL-200
XX Human NOV)
XX Human; NOV;
XX Human; NOV;
XX Human; NOV;
XX Infectious
XM Alzheimer
XM Alzheimer
XM Alzheimer
XM Alzheimer
XX US2004067;
XX US2004067;
XX O7-SEP-200
XX O7-SEP-200
XX O7-SEP-200
PR 07-SEP-200
PR 07-SEP-200
PR 11-SEP-200

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Best Local S
Matches 17
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11-SEP-2001
11-SEP-2001
17-SEP-2001
17-SEP-2001
19-SEP-2001
20-SEP-2001
20-SEP-2001
25-SEP-2001
25-SEP-2001
25-SEP-2001
25-SEP-2001
25-SEP-2002
26-PEB-2002
26-PEB-2002
21-MAR-2002
21-MAY-2002
11-MAY-2002
11-MAY-2002
28-MAY-2002
28-MAY-2002
21-MAY-2002
21-MAY-2002
21-MAY-2002
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07-SEP-2001;
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  ZHONG M.
LI L.
GORMAN L.
SPYTEK K A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                standard;
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                                                                                                                        2001US-0318120P.
2001US-0318130P.
2001US-0318219P.
2001US-03227816P.
2001US-0322816P.
2001US-0323636P.
2001US-0323636P.
2001US-0323636P.
2001US-0323636P.
2001US-0325991P.
2001US-0325991P.
2001US-0325991P.
2002US-0357303P.
2002US-0367733P.
2002US-036613TP.
2002US-0367753P.
2002US-0367753P.
2002US-0367753P.
2002US-0367753P.
2002US-0367753P.
2002US-0367753P.
2002US-038663P.
2002US-0381664P.
2002US-03836672P.
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larity 81.0%;
Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            #87.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DNA;
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Pred. No. 1.1e+03;
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4032 CCGGAGGAGGGGCCACCAGGG 4052

CAGGAGGATGACCCACCAGGG

Query Match Best Local S Matches 17

Similarity

0.3%;

Conservative

0 Score Pred. σ

Mismatches

No. 14.6; Ğ

1.1e+03

Length Indels

21;

<u>,,</u>

Gaps

0

Sequence

21

8P;

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ü σ <u>ب</u>

T; 0

0 Other; BB

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Larochelle WJ,
Boldog FL, Edi
Chapoval A;
                                                                                                                                                                                                                                                                                                                           Zhong M, Li L
Anderson DW,
Patturajan M,
Malyankar UM,
                       The invention relates to human NOVX polypeptides and polynucleotides. The isolated nucleic acids can be used to express the novel proteins, to detect novel mRNA or a genetic lesion in a novel gene and to modulate its activity. It can also be used in gene therapy for treating or preventing a pathology associated with the protein or nucleic acid. The disorders include metabolic disorders, diabetes, obesity, infectious diseases, anorexia, cancer, neurodegenerative disorders, Alzheimer's disease, Parkinson's disease, immune disorders and haematopoletic disorders. This sequence represents a probe used in analysis of expression of a human NOVX polynucleotide of the invention.
                                                                                                                                                                                            New isolated polypeptide, useful for treating or preventing associated with the polypeptide, e.g. diabetes, infectious cancer, neurodegenerative disorders or Alzheimer's disease.
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(GROS/)
(SMIT/)
(PEYM/)
(FOTAR/)
(ROTAR/)
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(MILLI/)
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(VERN/)
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(SHEN/)
(PATT/)
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(PCHE/)
(PADI/)
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(MALY/)
(BURG/)
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ANDERSON D W.
VERNET C A M.
CATTERTON E.
MILLER C E.
SHENOY S G.
PATTURAJAN M.
PENA C E A.
TCHERNEY V T.
PADIGARU M.
BURGESV V Y.
MALYANKAR U M.
BURGESS C E.
GERLACH V.
CASMAN S J.
CRABTELI D K.
GROSSE W M.
SMITHSON G.
CRABTELE W J.
CRABTELLI L.
VOSS E Z.
RASTELLI L.
VOSS E Z.
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MACDOUGALL .
ELLERMAN K.
CHAPOVAL A.
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                                                                                                                                                                                                                                                                                     Li L, Gorman L, Spytek KA, Kekuda R, Taupler RJ;
DW, Vernet CAM, Catterton E, Miller CE, Shenoy SG;
n M, Pena CEA, Tchernev V, Padigaru M, Gusev VY;
UM, Burgess CE, Gerlach V, Casman SJ, Rieger DK;
V, Smithson G, Peyman JA, Starling G, Rothenberg ME;
e WJ, Shimkets RA, Crabtree J, Rastelli L, Voss EZ;
Edinger SR, Millet I, Macdougall JR, Ellerman K;
                                                                                                                                                                       SEQ ID NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ສຸສ
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                                                                                                                                                                    514; 552pp; English.
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disease,
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ADN96427/c
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Best Local S
Matches 17
 07-SEP-2001;
07-SEP-2001;
07-SEP-2001;
10-SEP-2001;
11-SEP-2001;
17-SEP-2001;
17-SEP-2001;
19-SEP-2001;
20-SEP-2001;
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Chapoval A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to human NOVX polypeptides and polynucleotides. The isolated nucleic acids can be used to express the novel proteins, to detect novel mRNA or a genetic lesion in a novel gene and to modulate its activity. It can also be used in gene therapy for treating or preventing a pathology associated with the protein or nucleic acid. The disorders include metabolic disorders, diabetes, obseity, infectious diseases, anorexia, cancer, neurodegenerative disorders, Alzheimer's diseases, Parkinson's disease, immune disorders and haematopoietic disorders. This sequence represents a probe used in analysis of expression of a human NOVX polynucleotide of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Anderson DW, Vernet CAM, Catterton E, Miller CE, Shenoy SG; Patturajan M, Pena CEA, Tchernev VT, Padigaru M, Gusev VY; Malyankar UM, Burgess CE, Gerlach V, Casman SJ, Rieger DK; Grosse WM, Smithson G, Peyman JA, Starling G, Rothenberg ME; Larochelle WJ, Shimkets RA, Crabtree J, Rastelli L, Voss EZ; Boldog FL, Edinger SR, Millet I, Macdougall JR, Ellerman K;
                                                                                                                                                                                                                                                                                          infectious disease; anorexia; cancer; neurodegenerative disorder; Alzhaimer's disease; Parkinson's disease; immune disorder; haematopoietic disorder; antidiabetic; anorectic; antimicrobial; anabolic; eating disorder; cytostatic; neuroprotective; nootropic; antiparkinsonian; antianaemic; probe.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New isolated polypeptide, useful for treating or preventing a pathology associated with the polypeptide, e.g. diabetes, infectious disease, cancer, neurodegenerative disorders or Alzheimer's disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI;
                                                                                                                                                                                                                                                                                                                                                                   Human; NOVX; ss; metabolic disorder; diabetes; obesity;
                                                                                                                                                                                                                                                                                                                                                                                                                                  01-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADN96427 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 21 BP; 1 A;
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                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                    Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4032 CCGGAGGAGGGCCACCAGGG 4052
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                                                                                                                                                                                                                                                                                                                                                                                                  probe
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2001US-031812OP.
2001US-031813OP.
2001US-031821OP.
2001US-031843OP.
2001US-031843OP.
2001US-03227816P.
2001US-0322816P.
2001US-0323631P.
2001US-0323636P.
                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                      2002US-00236392
                                                                                                                                                                                                                                                                                                                                                                                                    #79.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8 C; 6 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ВÞ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 14.6;
Pred. No. 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .1e+03
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CCCCXSXTTTXXXTTTTTTTTXX
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25-SEP-2001;
26-SEP-2001;
15-FEB-2002;
28-FEB-2002;
20-MAR-2002;
20-MAR-2002;
10-MAY-2002;
11-MAY-2002;
28-MAY-2002;
29-MAY-2002;
29-MAY-2002;
                                                                                                            Zhong M, Li L, Gorman L, Spytek KA, Kekuda R, Taupier RJ, Anderson DW, Vernet CAM, Cattertron E, Miller CE, Shenoy SG, Patturajan M, Pena CEA, Tchernev VT, Padigaru M, Gusev VY; Malyankar UM, Burgess CE, Gerlach V, Casman SJ, Rieger DK; Grosse WM, Smithson G, Peyman JA, Starling G, Rothenberg ME; Larochelle WJ, Shimkets RA, Crabtree J, Rastelli L, Voss EZ; Boldog FL, Edinger SR, Millet I, Macdougall JR, Ellerman K;
                                                                                                                                                                                                               (CASM/)
(RIES/)
(GROS/)
(SMIT/)
(PEYM/)
(STAR/)
(ROTH/)
(LARO/)
(LARO/)
(CRAST/)
(CRAST/)
(VOSC)
(BOLD/)
(BOLD/)
                                                                                                                                                                                                                                                                                                                                                (PADI/)
(GUSE/)
(MALY/)
(BURG/)
(GERL/)
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(CATT/)
(MILL/)
(MILL/)
(SHEN/)
(SHEN/)
(PATT/)
(PENA/)
(TCHE/)
                                                                                                                                                                                    (MACD/)
(ELLE/)
(CHAP/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                         (ANDE/)
                                                                                     2004-355290/33
                                                                                                                                                                                                                                                                                            CATTERTON E.
MILLER C E.
SHENOY S G.
PATTURAJAN M.
PENA C E A.
TCHERNEV V T.
PADIGARU M T.
PADIGARU M M.
GUSEV V Y.
MALYANKAR U M.
BURGESS C E.
GERLACH V.
CASMAN S J.
RIEGER D K.
GROSSE W M.
STARLING G.
PEYMAN J J.
STARLING G.
                                                                                                                                                                                                                                       RIEGER D K.
GROSSE W M.
SMITHSON G.
SMITHSON J A.
STARLING G.
ROTHENBERG M
LAROCHELLE W
SHIMKETS R A
CRABTREE J.
RASTELLI L.
VOSS E Z.
                                                                                                                                                                                    MACDOUGALL J
ELLERMAN K.
CHAPOVAL A.
                                                                                                                                                                                                              VOSS E Z.
BOLDOG F L.
EDINGER S R.
MILLET I.
                                                                                                                                                                                                                                                                                                                                                                                                                                               SPYTEK K A.
KEKUDA R.
TAUPIER R J.
ANDERSON D W.
VERNET C A M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GORMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2001US-0324969P.
2001US-0325991P.
2001US-0324990P.
2002US-0357303P.
2002US-0366131P.
2002US-0366131P.
2002US-0367753P.
2002US-0369479P.
2002US-0391664P.
2002US-0381664P.
2002US-0381672P.
2002US-0384012P.
2002US-0384012P.
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The invention relates to human NOVX polypeptides and polymucleotides. isolated nucleic acids can be used to express the novel proteins, to detect novel mrNA or a genetic lesion in a novel gene and to modulate

New isolated polypeptide, useful for treating or preventing a pathology associated with the polypeptide, e.g. diabetes, infectious disease, cancer, neurodegenerative disorders or Alzheimer's disease.

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SEQ

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490;

552pp;

English.

(RIEG/) (SMIT/) (SMIT/) (PEYM/) (STAM/) (ROTH/) (CARO/) (CABH/) (CABF/) (COSS/) (BOIL/) (BOIL/) (MILLL/) (MACL/) (CHAP/)

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detect novel mRNA or a genetic lesion in a novel gene and polynucleotides. The activity. It can also be used in gene therapy for treating or preventing a pathology associated with the protein or nucleic acid. The disorders include metabolic disorders, diabetes, obesity, infectious diseases, anorexia, cancer, neurodegenerative disorders Alzheimer's disease, Parkinson's disease, immune disorders and haematopoietic disorders. This sequence represents a probe used in analysis of expression of a human NOVX polynucleotide of the invention.
          Human; NOVX; 88; metabolic disorder; diabetes; obesity; infectious disease; anorexia; cancer; neurodegenerative disorder; Alzheimer's disease; Parkinson's disease; immune disorder; haematopoietic disorder; antidiabetic; anorectic; antimicrobial; anabolic; eating disorder; cytostatic; neuroprotective; nootropi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New isolated polypeptide, useful for treating or preventing a pathology associated with the polypeptide, e.g. diabetes, infectious disease, cancer, neurodegenerative disorders or Alzheimer's disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Zhong M, Li L, Gorman L, Spytek KA, Kekuda R, Taupier RJ; Anderson DW, Vernet CAM, Catterton E, Miller CE, Shenoy SG; Patturajan M, Pena CEA, Tchernev VT, Padigaru M, Gusev VY; Malyankar UM, Burgess CE, Gerlach V, Casman SJ, Rieger DK; Grosse WM, Smithson G, Peyman JA, Starling G, Rothenberg ME; Larochelle WJ, Shimkets RA, Crabtree J, Rastelli L, Voss EZ; Boldog FL, Edinger SR, Millet I, Macdougall JR, Ellerman K;
   antiparkinsonian; antianaemic;
                                                                                                          01-JUL-2004
                                                                                                                                                     ADN96664 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2004-355290/33.
                                                                                                                                                                                                                                                            l Similarity
17; Conserv
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MILLET I.
MACDOUGALL J
ELLERMAN K.
CHAPOVAL A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GROSSE W M.
GROSSE W M.
SMITHSON G.
SMITHSON J A.
STARLING G.
ROTHENBERG W
LAROCHELLE W
SHIMKETS R A.
CRABTEEL J.
RASTELLI L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CRABTREE
RASTELLI
VOSS E Z.
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                                                                                                                                                                                                              CAGGAGGATGACCCACCAGGG 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQ ID NO 592; 552pp; English.
                                                                                  probe
                                                                                                                                                                                                                                                                                                         BP; 1 A;
                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
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                                                                                                                                                                                                                                                                      0.3%;
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                                                                                                                                                       ВP
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                                                                                                                                                                                                                                                                                                         G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                      Score 14.6;
Pred. No. 1
                                                                                                                                                                                                                                                             Mismatches
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                                                                                                                                                                                                                                                                                  DB 1;
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                                                                                                                                                                                                                                                                                  Length
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              nootropic;
                                                disorder;
                                                                                                                                                                                                                                                          0,
                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                           0
   10-SEP-2001
17-SEP-2001
17-SEP-2001
17-SEP-2001
19-SEP-2001
20-SEP-2001
20-SEP-2001
25-SEP-2001
25-SEP-2001
25-SEP-2001
25-SEP-2001
25-SEP-2002
25-MAR-2002
25-MAR-2002
20-MAR-2002
10-MAY-2002
17-MAY-2002
17-MAY-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   07-SEP-2001;
07-SEP-2001;
07-SEP-2001;
                      (GROS/)
(SMITAR/)
(STAR/)
(ROTH/)
(LAOTH/)
(LAOTH/)
(CRAB/)
(CRAB/)
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(WAST/)
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(PENA/
(TCHE/
(PADI/
(GUSE/
(MALY/
(BURG/
(BURG/
(GERL/
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(KEKU/)
(TAUP/)
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(CATT/)
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                                                                                           PADIGARU M.
GUSEV V Y.
MALYANKAR U M.
BURGESS C E.
GERLACH V.
CASMAN S J.
RIEGER D K.
GROSSE W M.
SMITHSON G.
PEYMAN J A.
STARLING G.
ROTHENBERG M E
LAROCHELLE W J.
CRABTEE J.
RASTELLI L.
VOSS E Z.
                                                                                                                                                                                                                                                                            GORMAN L.
SPYTEK K A.
KEKUDA R.
TAUPIER R J.
ANDERSON D W.
VERNET C A M.
CATTERTON E.
MILLER C E.
SHENOY S G.
PATTURAJAN M.
PENA C E A.
TCHERNEY V T.
PADIGARU W.
GUSEV V W.
                      MACDOUGALL CELLERMAN K. CHAPOVAL A.
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GORMAN
                                                                       EDINGER
                                                                                BOLDOG
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2001US-0312781FP.
2001US-0322816P.
2001US-0323519P.
2001US-0323636P.
2001US-0323636P.
2001US-0324969P.
2001US-0357303P.
2002US-0357303P.
2002US-0366131P.
2002US-0366131P.
2002US-0366131P.
2002US-0366131P.
2002US-0381672P.
2002US-0381672P.
2002US-0381672P.
2002US-0381672P.
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2001US-0318219P
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Gorman L,
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 Spytek KA,
 Kekuda R,
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Chapoval

Example

RESULT 1831
ADN96664/c
ID ADN9666
XX
AC ADN9666
XX
DT 01-JULXX
DT 01-JULXX
Human 1
XX
Human;
KW Human;
KW Alzheit
KW Alzheit
KW Anabol:

Taupier RJ;

ADN96664;

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4032 21

Query Match Best Local S Matches 17

Sequence

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ફ
                                    Query Match
Best Local S
Matches 17
                                                                                                      The invention relates to human NOVX polypeptides and polynucleotides. The isolated nucleic acids can be used to express the novel proteins, to detect novel mRNA or a genetic lesion in a novel gene and to modulate its activity. It can also be used in gene therapy for treating or preventing a pathology associated with the protein or nucleic acid. The disorders include metabolic disorders, diabetes, obesity, infectious diseases, anorexia, cancer, neurodegenerative disorders, Alzheimer's disease, parkinson's disease, immune disorders and haematopoietic disorders. This sequence represents a probe used in analysis of expression of a human NOVX polynucleotide of the invention.
                                                                                                                                                                                                                                                                                                                                      Boldog FL,
Chapoval A
                                                                                                                                                                                                                                                             New isolated polypeptide, useful for treating or preventing a pathology associated with the polypeptide, e.g. diabetes, infectious disease, cancer, neurodegenerative disorders or Alzheimer's disease.
                                                                                                                                                                                                                                                                                                                                                Zhong M, Li L, Gorman L, Spytek KA, Kekuda R, Taupier RJ;
Anderson DW, Vernet CAM, Catterton E, Miller CE, Shenoy SG;
Patturajan M, Pena CEA, Tchernev VT, Padigaru M, Gusev VY;
Malyankar UM, Burgess CE, Gerlach V, Casman SJ, Rieger DK;
Grosse WM, Smithson G, Peyman JA, Starling G, Rothenberg MB;
Larochelle WJ, Shimkets RA, Crabtree J, Rastelli L, Voss EZ;
Boldog FL, Edinger SR, Millet I, Macdougall JR, Ellerman K;
                                                                                                                                                                                                                                                                                                                                                                                                                                                (GERG/)
(GERM/)
(CASM/)
(RIEG/)
(RIEG/)
(SMIT/)
(PEYM/)
(STAR/)
(ROTH/)
(LARO/)
(CASHM/)
(CAST)
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(MILL/)
(SHEN/)
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(PENA/)
(TCHE/)
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(GUSE/)
(MALY/)
                                                                                  Sequence
                                                                                                                                                                                                                                         Example
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(TAUP/)
(ANDE/)
(VERN/)
4032 CCGGAGGAGGGGCCACCAGGG
                                                                                                                                                                                                                                                                                                                                         2004-355290/33.
                                    1 Similarity
17; Conserv
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MILLER C E.
SHENOY S G.
SHENOY S G.
PATTURAJAN M.
PENA C E A.
TCHERNEV V T.
PADIGARU M.
GUSEV V Y T.
MALYANKAR U M.
BURGESS C E.
GERLACH V.
CASMAN S J.
RIEGER D K.
GROSSE W M.
SMITHSON G.
PEYMAN J A.
STARLING G.
PEYMAN J A.
STARLING G.
ROTHENBERG M E.
LAROCHELLE W J.
SHIMKETS R A.
CRABTEL I L.
VOSS E Z.
BOLDOG F L.
BOLDOG F L.
BOLDOGALL J R
MALDENGALL J R
LLERMAN K.
CHAPOVAL A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DII L.

GORMAN L.

SPYTEK K A.

SPYTEK K A.

KEKUDA R.

TAUPIER R J.

ANDERSON D W.

VERNET C A M.
                                                                                                                                                                                                                                     C; SEQ ID NO 700; 552pp; English.
                                                                                   21
                                    Conservative
                                                                                  BP; 1
                                                                                 A;
                                              0.3%;
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                                                                                  œ
                                                                                 C; 6
                                0;
                                                                                 G; 6 T; 0
                                              Score 14.6;
Pred. No. 1.
             4052
                                    Mismatches
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                                              .1e+03;
                                                                                  0 Other;
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                                                         Length 21;
                                    Indels
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ADN96529/c
ID ADN9652
XX ADN9652
AC ADN9652

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11-SEP-2001
11-SEP-2001
11-SEP-2001
11-SEP-2001
11-SEP-2001
20-SEP-2001
20-SEP-2001
25-SEP-2001
25-SEP-2001
25-SEP-2001
25-SEP-2001
25-SEP-2002
26-MAR-2002
27-MAR-2002
17-MAY-2002
17-MAY-2002
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                                                              (ZHON/)
(LILL)
(GORM/)
(SPYT/)
(KEKU)
(TAUP/)
(VERN/)
(VERN/)
(MILL/)
(SHEN/)
(PENA/)
(PENA/)
(PENA/)
(POUSE/)
    (BURG/)
(GERL/)
(CASM/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       antiparkinsonian;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-JUL-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADN96529;
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  PADIGARU M.
GUSEV V Y.
MALYANKAR U M
BURGESS C E.
GERLACH V.
CASMAN S J.
                                                                                                                       GORMAN L.
SPYTEK K A.
KEKUDA R.
TAUPIER R J.
ANDERSON D W.
VERNET C A M.
CATTERTON E.
CATTERTON E.
SHENOY S G.
PATTURAJAN M.
PENA C B A.
TCHERNEY V T.
                                                                                                                                                                                                                                                                                                               ZHONG M
LI L.
GORMAN
SPYTEK
KEKUDA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               standard; DNA; 21 BP
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2001US-0318130P
2001US-0318219P
2001US-0318430P
2001US-0318430P
2001US-0322816P
2001US-0322816P
2001US-0323631P
2001US-0323631P
2001US-0323636P
2001US-0325091P
2001US-0325091P
2001US-0325091P
2002US-0357303P
2002US-0357303P
2002US-036131P
2002US-0366131P
2002US-036131P
2002US-0381664P
2002US-0381652P
2002US-0381652P
2002US-0384012P
2002US-0384012P
2002US-0384012P
2002US-0384012P
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Zhong M, Li L,
Anderson DW, Ve
Patturajan M, I
Malyankar UM, I
                                                                                                                                                           Grosse WM, Smithson
Larochelle WJ, Shim
Boldog FL, Edinger S
Chapoval A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      19-SEP-2001
20-SEP-2001
20-SEP-2001
25-SEP-2001
25-SEP-2001
25-SEP-2001
15-FEB-2002
28-FEB-2002
28-FEB-2002
20-MAR-2002
10-MAY-2002
11-MAY-2002
11-MAY-2002
                                                 New isolated polypeptide, useful for associated with the polypeptide, e.g cancer, neurodegenerative disorders
                                                                                                                                                                                                                                                                                                                                                                                    (CHON/)
(CITION/)
(CORN/)
(CORN/)
(CANDE/)
(VERY)
(VANDE/)
(VERY)
(CATY)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     17-MAY-2002;
28-MAY-2002;
                                                                                                                                                                                                                                                                                                                                                (MACD/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29-MAY-2002;
19-JUN-2002;
                                                                                                                         2004-355290/33.
                                                                                                                                                                                                                                                                                                                                                                                                                                                   MALYANKAR U M.
BURGESS C E.
BERLACH V.
CASMAN S J.
RIEGER D K.
GROSSE W M.
SMITHSON G.
PEYMAN J A.
STARLING G.
ROTHENBERG M E
LAROCHELLE W J.
SHIMKETS R A.
CRABTREE J.
RASTELLI L.
VOCS F J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MILLER C B.
SHENOY S G.
PATTURAJAN M.
PENA C E A.
TCHERNEY V T.
PADIGARU M.
GUSEV V Y.
                                                                                                                                                                                                                                                                                                                             MACDOUGALL J R.
ELLERMAN K.
CHAPOVAL A.
                                                                                                                                                                                                                                                                                                                                                                                    SHIMKETS R A.
CRABTREE J.
RASTELLI L.
VOSS E Z.
BOLDOG F L.
EDINGER S R.
MILLET I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GORMAN L.
SPYTEK K A.
KEKUDA R.
TAUPIER R J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CATTERTON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   VERNET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ZHONG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ANDERSON
                                                                                                                                                                                                                                                          ' Vernet
                                                                                                                                                                          i L, Gorman L, Spytek KA, Kekuda R, Taupier RJ;
, Vernet CAM, Catterton E, Miller CE, Shenoy SG;
M, Pena CEA, Tchernev VT, Padigaru M, Gusev VY;
M, Burgess CE, Gerlach V, Casman SJ, Rieger DK;
Smithson G, Peyman JA, Starling G, Rothenberg ME;
WJ, Shimkets RA, Crabtree J, Rastelli L, Voss EZ;
Eddinger SR, Millet I, Macdougall JR, Ellerman K;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; 2001US-0323519P.
; 2001US-0323631P;
; 2001US-0323636P;
; 2001US-0324969P;
; 2001US-0324990P;
; 2002US-0357303P;
; 2002US-0366131P;
; 2002US-0366131P;
; 2002US-036753P;
; 2002US-0381664P;
; 2002US-0381672P;
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ت
                                                                  for treating or preventing a pathology e.g. diabetes, infectious disease,
                                                   or Alzheimer's disease.
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Example

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SEQ

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652;

552pp; English

(ZHON/)

ZHONG

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10-SEP-2001 17-SEP-2001 17-SEP-2001 17-SEP-2001 19-SEP-2001 20-SEP-2001 20-SEP-2001 25-SEP-2001 25-SEP-2001 25-SEP-2001 25-SEP-2002 25-MAR-2002 20-MAR-2002 20-MAR-2002 17-MAY-2002 17-MAY-2002 29-MAY-2002 29-MAY-2002 29-MAY-2002 29-MAY-2002 29-MAY-2002 29-MAY-2002 29-MAY-2002 29-MAY-2002

2001US-0318120P.
2001US-0318130P.
2001US-0318219P.
2001US-03227816P.
2001US-0323519P.
2001US-0323636P.
2001US-0323636P.
2001US-0323636P.
2001US-0324969P.
2001US-0357303P.
2002US-0357303P.
2002US-0357303P.
2002US-035733P.
2002US-0366131P.
2002US-0366131P.
2002US-0366131P.
2002US-0386131P.
2002US-0386131P.
2002US-0386131P.
2002US-0381672P.
2002US-0381672P.
2002US-0384012P.

07-SEP-2001; 07-SEP-2001; 07-SEP-2001;

06-SEP-2002; 08-APR-2004 US2004067490-A1 Homo sapiens

2002US-00236392

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ADN96637/c
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to human NOVX polypeptides and polynucleotides. The isolated nucleic acids can be used to express the novel proteins, to detect novel mRNA or a genetic lesion in a novel gene and to modulate its activity. It can also be used in gene therapy for treating or preventing a pathology associated with the protein or nucleic acid. The disorders include metabolic disorders, diabetes, obesity, infectious diseases, anorexia, cancer, neurodegenerative disorders, Alzheimer's disease, parkinson's disease, immune disorders and haematopoietic disorders. This sequence represents a probe used in analysis of expression of a human NOVX polynucleotide of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                          Human; NOVX; 88; metabolic disorder; diabete8; obesity; infectious disease; anorexia; cancer; neurodegenerative disorder; Alzheimer's disease; Parkinson's disease; immune disorder; haematopoietic disorder; antidiabetic; anorectic; antimicrobial; haematopoietic disorder; cytostatic; neuroprotective; nootropic; anabolic; eating disorder; cytostatic; neuroprotective; nootropic;
                                                                                                                                                                                                                                                                                                                                                                                                   antiparkinsonian;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      01-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADN96637;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADN96637 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4032 CCGGAGGAGGGGCCACCAGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 XVON
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17; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 probe
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                    antianaemic;
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Pred. No. 1.1e
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             21;
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention relates to Arabidopsis NI16 gene encoding a protein involved in the regulation of SAR gene expression in plants. The NI16 nucleic acid molecule and the encoded protein is useful in increasing systemic acquired resistance (SAR) gene expression in a plant. The present sequence is a PCR primer used for cloning Arabidopsis thalianal present.
                                                                                                                                                                                                                                                                    ss; primer; neuroprotective; anti-parkinsonian; FGF-agonist; dopaminergic neuronal development; neural stem cell; neural progenitor cell; neural progenitor cell; neural progenitor; which is a neural progenitor of the property with the property of the pro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        15-DEC-1999; 99US-0171008P
11-JAN-2000; 2000US-0175519P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NI16; SAR; systemic acquired
  24-SEP-2002; 2002GB-00022162
                                              24-SEP-2003; 2003WO-IB004598
                                                                                                  08-APR-2004
                                                                                                                                                   WO2004029229-A2
                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                  Parkinson's disease;
                                                                                                                                                                                                                                                                                                                                                                                                Tyr hydroxylase reverse primer for neuronal cell development detection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADM57578 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16-MAR-2004.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2802 GAAGGAGAAATGAAGAAGGA 2822
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SYNGENTA PARTICIPATIONS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          nucleic acid sequence and encoded protein, useful for increasing acquired resistance gene expression in a plant.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        21 BP; 11
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GAAGGGGAAAAACATGAAGGA
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                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A; 1 C; 8
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                                                                                                                                                                                                                                                  Parkinsonian
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Pred. No. 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
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م
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
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07-SEP-2001; 07-SEP-2001; 07-SEP-2001; 10-SEP-2001; 12-SEP-2001; 17-SEP-2001;

2001US-0318130P. 2001US-0318130P. 2001US-0318219P. 2001US-0318430P. 2001US-0318765P. 2001US-03227816P. 2001US-0322816P.

06-SEP-2002;

2002US-00236392

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RESULT 1828
ADN96589/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to a method of inducing or promoting dopaminergic neuronal development by enhancing proliferation, self-renewal, dopaminergic induction, survival, differentiation, and/or maturation in a neural stem, progenitor or precursor cell, or other stem or neural cell by expressing a nuclear receptor of the Nurri subfamily above basal levels within the cell, and treating the cell with a Wnt ligand. The dopaminergic neuron is useful in screening for an agent for use in treatment of a neurodegenerative disease. The neurodegenerative disease includes Parkinson's disease, a Parkinsonian syndrome or neuronal loss. The success of the method of the invention was determined by PCR amplification of selected genes within the induced neuronal cells. This sequence represents a PCR primer used to amplify these genes to detect
                                                                                                                                                                                                                                               infectious disease; anorexia; càncer; neurodegenerative disorder Alzheimer's disease; Parkinson's disease; immune disorder, haematopoietic disorder; antidiabetic; anorectic; antimicrobial; anabolic; eating disorder; cytostatic; neuroprotective; nootropi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Promoting dopaminergic neuronal development by enhancing proliferation a neural cell expressing Nurrl, useful in treating neurodegenerative diseases, such as Parkinson's disease, a Parkinsonian syndrome or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           24-SEP-2002; 2002US-0413046P.
12-AUG-2003; 2003US-0494595P.
                                                                                                                                                                                                                                                                                                                                     Human NOVX probe #133.
                                                                                                                                                                                                                                                                                                                                                                      01-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 21 BP; 5 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure; SEQ ID NO
                                                                                                                                                                                                     Homo sapiens.
                                                                                                                                                                                                                                    antiparkinsonian;
                                                                                                                                                                                                                                                                                                         Human; NOVX; ss; metabolic disorder; diabetes; obesity;
                                                                                                                                                                                                                                                                                                                                                                                                   ADN96589;
                                                                                                                                                                                                                                                                                                                                                                                                                             ADN96589
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2004-316111/29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (NEUR-) NEURO THERAPEUTICS AB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2061
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTGGGGAACAAGGGAGCCGTG
                                                                                                                                                                                                                                                                                                                                                                                                                               standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTTGGGAACCAGGGAACCTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Wagner J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       revers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                    antianaemic; probe
                                                                                                                                                                                                                                                                                                                                                                                                                               DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5 C; 7 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8; 106pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Branco GC,
                                                                                                                                                                                                                                                                                                                                                                                                                               21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 14.6; DB 1;
Pred. No. 1.1e+03;
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                                                                                                                                                                                                                                                                                            disorder;
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ADJ76719/c
ID ADJ7671
XX
AC ADJ7671
XC ADJ7671
XX
C ADJ7671
XX
DT 20-MAY-
XX
DE GBP5 pr
XX
KW bronchi
KW respira
                                                                                                                                                                                                                                                                                                                                                                                      comprises a modified ribonucleotide, where the siRNA (SiRNA) which comprises a modified ribonucleotide, where the siRNA is resistant to CC RNase and retains the ability to inhibit viral replication. Also CC described: (1) inactivating a virus in a patient; (2) making a modified CC siRNA that targets a nucleic acid sequence in a virus; (3) a double-cCC stranded RNA molecule of 10-30 nucleotides that inhibits replication of CC hepatitis C virus (HCV); (4) inhibiting replication of HCV; (6) a vector CC comprising a DNA segment encoding the RNA molecule; (7) a host cell CC carrying HCV; (9) treating hepatitis C in a subject; (10) a modified CC siRNA molecule comprising a double-stranded RNA molecule of 10-30 cc nucleotides in length, which mediates RNA interference toward a target CC agent or virus and is linked to at least one receptor-binding ligand; and CC in inducing targeted RNA interference in a patient. The modified siRNA molecules are useful for treating hepatitis C virus, hepatitis D virus, hepatitis C virus, hepatitis A virus, metapheumoniavirus or coronavirus infections. The methods of the invention can be used to correct or compensate for cellular physiological abnormalities involved in conferring susceptibility to viral infections in natients. The present sequence represents an siRNA oligonucleotide, which is used in an example from the present invention.
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                                                                                                                                                                                                                                                                                                                  Best Local Similarity Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local
bronchial asthma; chronic obstructive pulmonary disease; respiratory; antiasthmatic;
                                                      GBPS probe SEQ ID NO:1971.
                                                                                        20-MAY-2004
                                                                                                                                                            ADJ76719 standard; DNA; 21 BP
                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New RNase resistant small interfering RNA, useful for treating viral infections, e.g., hepatitis C, influenza virus or coronavirus infection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Hepatitis C virus. Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Han J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        26-JUL-2002; 2002US-0398605P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             05-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention describes a small interfering RNA (siRNA) which
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 12; Fig 2; 74pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         25-JUL-2003; 2003WO-US023104
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                                                                                                                                                                                                                                                                                 2127 AGCCACTTGACTTCAGGAAGT 2147
                                                                                                                                                                                                                                                 21
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                                                                                                                                                                                                                                                                                                                                                                                        21
                                                                                                                                                                                                                                                                                                                                                                                        BP; 4 A; 7 C; 5 G; 0 T; 5 U; 0 Other;
                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                0.3%;
                                                                                                                                                                                                                                                                                                                  0;
                                                                                                                                                                                                                                                                                                                                    Score 14.6;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                  Mismatches
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                                                                                                                                                                                                                                                                                                                                                    DB 1;
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                                                                                                                                                                                                                                                                                                                                                    Length 21;
                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                  0
                                                                                                                                                                                                                                                                                                                  Gaps
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RESULT 1826 ADN17275

ADN17275 standard; DNA; 21 BP

ADN17275

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21

Best Local Similarity
Matches 17; Conserv

Conservative

0 Pred.

Mismatches

Indels

0

Gaps

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ŏ.

.1e+03

2369 GCTCACAGAGAGGAGGGAGCA 2389

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The present invention describes a method of testing for bronchial asthma or chronic obstructive pulmonary disease. The method comprises conditions a subject, comparing the expression level of a marker gene in a biological sample from a subject, comparing the expression level determined with the compression level of the marker gene in a biological sample from a healthy condition of the marker gene in a biological sample from a healthy condition in the subject has bronchial asthma or chronic obstructive pulmonary disease. The marker gene comprises: (a) a group of genes (S1) whose expression levels increase when respiratory epithelial cells are stimulated with interleukin-13; or (b) a group of genes (S2) whose expression levels decrease when respiratory epithelial cells are conditionally stimulated with interleukin-13; or (b) a group of genes (S2) whose expression levels decrease when respiratory epithelial cells are conditionally stimulated with interleukin-13; or (b) a group of genes (S2) whose expression levels decrease when respiratory epithelial cells are conditionally stimulated with interleukin-13; or (b) a group of genes (S2) whose expression for screening for a candidate compound for a therapeutic agent to treat bronchial asthma or chronic obstructive pulmonary disease; (3) an animal model for bronchial asthma in a mouse; (5) a method for producing an animal model for bronchial asthma or chronic obstructive pulmonary disease; (3) a marker gene, a ribozyme, a polynucleotide that suppresses the compound, a marker gene or an antisense nucleic acid corresponding to a portion of the marker gene and (7) a DNA chip for testing for corresponding to a portion of corresponding to a portion o
                                       Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Testing for bronchial asthma or chronic obstructive pulmonary disease leading the expression level of a marker gene in a biological sample from a subject with the expression level of the gene in a sample from a subject with the expression level of the gene in a sample from a subject with the expression level of the gene in a sample from a subject with the expression level of the gene in a sample from a subject with the expression level of the gene in a sample from a subject with the expression level of the gene in a sample from a subject with the expression level of the gene in a sample from a subject with the expression level of the gene in a sample from a subject with the expression level of the gene in a sample from a subject with the expression level of the gene in a sample from a subject with the expression level of the gene in a sample from a subject with the expression level of the gene in a sample from a subject with the expression level of the gene in a sample from a subject with the expression level of the gene in a sample from a subject with the expression level of the gene in a sample from a subject with the expression level of the gene in a sample from a subject with the expression level of the gene in a sample from a subject with the sam
                                                                                                                   Sequence 21
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20-MAR-2003; 2003JP-00077212
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        gene therapy; marker; probe; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (GENO-) GENOX RES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sugita Y,
                                                                                                                   BP; 3 A;
0.3%;
                                                                                                                       8 C; 3 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Yamaya
                                           Score 14.6;
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                                               DB 1;
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ADI03757
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Best Local S
Matches 17
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                                                                                                                                                                                                                                                                                                                                                                                                      combinatorial library of compounds that are suspected of inhibiting TRAIL, detecting any interactions that occur and selecting compounds as appropriate. The present invention further describes inducing animals to develop experimental autoimmune encephalitis (EAE) by administration of an EAE-inducing agent followed by a TRAIL inhibitor to induce neuronal cell injury and measuring the response. Accordingly, the method provides a means to identify neuroprotective compounds that can be useful for the manufacture of compositions to treat the chronic inflammatory disease of multiple sclerosis. This oligonucleotide sequence is a PCR primer used to amplify the murine TRAIL-R2 receptor (also known as DR5) of the
Homo sapiens
Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  This invention relates to a novel method for screening compounds capable of inhibiting tumour necrosis factor related apoptosis inducing ligand (TRAIL) to induce neuronal cell injury. Specifically, it refers to a method of contacting TRAIL (also known as APO-2 ligand) with a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PCR; ss; primer; murine; mouse; TRAIL-R2; DR5;
tumour necrosis factor related apoptosis inducing ligand; TRAIL;
neuronal cell injury; APO-2 ligand; experimental autoimmune encephalitis;
EAE; neuroprotective; chronic inflammatory disease; multiple sclerosis.
                                                                                                                                                                                                                                                                                                                                                             Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Screening
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Aktas O,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           02-JAN-2004.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PCR primer 2 used to
                                        Radin antigen;
                                                      ERMAP; erythroid
                                                                                 Human ERMAP gene
                                                                                                                                            ADI03757;
                                                                                                                                                                       ADI03757 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 1; Col 8; 12pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28-JUN-2002; 2002EP-00014441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               28-JUN-2002; 2002EP-00014441.
                                                                                                               22-APR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (UYBE ) UNIV BERLIN
                                                                                                                                                                                                                                                                                                                                                                                           invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ф
                                                                                                                                                                                                                                                                       5024 GGGTGGGCCTCTTGGTTCCAG 5044
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                                                                                                                                                                                                                                              21
                                                                                                                                                                                                                                                                                                                    Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ng for compounds capable of inhibiting tumor necrosis factorapoptosis inducing ligand to induce neuronal cell injury by ing ligand with compound, detecting interaction of ligand with
                                                                                                                                                                                                                                               GGATAGGACTCCTGGTTCCAG 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Zipp
                                                                                                                                                                                                                                                                                                                                                             BP; 5 A; 7 C; 5 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                               (first
                                          Rd;
                                        membrane-associated
d; red cell adhesion
                                                                                 fragment amplifying primer ev6a.
                                                                                                                                                                     DNA;
                                                                                                             entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       HUMBOLDT
                                                                                                                                                                                                                                                                                                                 0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     amplify murine TRAIL-R2 receptor
                                                                                                                                                                        21
                                                                                                                                                                       ВP
                                                                                                                                                                                                                                                                                                    0,
                                                                                                                                                                                                                                                                                                                 Score 14.6; DB 1;
Pred. No. 1.1e+03;
                                                                                                                                                                                                                                                                                                       Mismatches
                                        protein; Scianna antigen;
protein; human; PCR; prim
                                                                                                                                                                                                                                                                                                                               Length 21;
                                                                                                                                                                                                                                                                                                    Indels
                                        primer;
                                                                                                                                                                                                                                                                                                    0,
                                                                                                                                                                                                                                                                                                    Gaps
                                        88
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RESULT 1824
ADJ38999/c
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                                                                                                                                                                                                         Query Match
Best Local S
Matches 17
ADJ38999;
                                     ADJ38999 standard; RNA;
                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to a polynucleotide (I) encoding human erythroid membrane-associated protein (ERMAP), its fragment or variant, carrying least one mutation as compared to the nucleotide sequence (SEQ ID NO: )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure; SEQ ID NO 42; 58pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      protein (ERMAP) having at least one mutation compared to a wild type ERMAP, useful for detecting Scianna antigen or determining Scianna
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New polynucleotides encoding a human erythroid membrane-associated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2004-101299/11.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    05-JUL-2002; 2002EP-00014908
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                                                                                                                                                                   2830 GGGAGCTGGTGAAGTTTG 2850
                                                                                                                                  μ.
                                                                                                                                                                                                                            Similarity
                                                                                                                                GGGAGGTGGAGGTGAAGATAG
                                                                                                                                                                                                                                                                                      21
                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                    BP; 6
                                                                                                                                                                                                                                                                                      P
                                                                                                                                                                                                                        81.0%;
                                                                                                                                                                                                                                                                                    0 C; 12
                                                                                                                                                                                                                                              0.3%;
                                     21
                                     ВP
                                                                                                                                                                                                           0;
                                                                                                                                                                                                                          Score 14.6; DB 1; Length 21; Pred. No. 1.1e+03;
                                                                                                                                                                                                                                                                                    G; 3 T; 0 U;
                                                                                                                                  21
                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                      0 Other;
                                                                                                                                                                                                             Indels
                                                                                                                                                                                                           0
                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          <u>:</u>
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small interfering RNA; siRNA; modified ribonucleotide; viral replication inhibition; hepatitis C virus; HCV; hepatitis C; antiinflammatory; hepatotropic; virucide; hepatitis A virus; hepatitis E virus; Bola virus; influenza virus; rotavirus; recrovirus; poliovirus; human papilloma virus; metapneumoniavirus; coronavirus; viral infection; ss.

Hepatitis C virus siRNA antisense oligonucleotide

303

0

06-MAY-2004

(first entry)

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$\times \times \
03-UN-2002

05-UN-2002

05-UN-2002

06-UN-2002

06-UN-2002

06-UN-2002

07-UN-2002

07-UN-2002

07-UN-2002

07-UN-2002

07-UN-2002

11-UN-2002

11-UN-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          03-JUN-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             11-DEC-2003
2002US-038674PP
2002US-0386041PP
2002US-0386041PP
2002US-0386453PP
2002US-0386864PP
2002US-0386864PP
2002US-0386864PP
2002US-038691PP
2002US-0386971PP
2002US-0386971PP
2002US-0387610PP
2002US-0387650PP
2002US-0387650PP
2002US-0387650PP
2002US-0387666PP
2002US-0387666PP
2002US-0387666PP
2002US-03877696PP
2002US-0387859PP
2002US-0387859PP
2002US-0387859PP
2002US-03897859PP
2002US-03897859PP
2002US-0389118PP
2002US-0403891P
2002US-0403839P
2002US-0403839P
2002US-0403833PP
2002US-0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2003WO-US017430
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26-AUG-2002;

27-AUG-2002;

12-SEP-2002;

20-SEP-2002;

30-SEP-2002;

30-SEP-2002;

30-SEP-2002;

30-SEP-2002;

30-SEP-2002;

30-CCT-2002;

20-CCT-2002;

20-CCT-2002;

21-CCT-2002;

21-CCT-2002;

21-CCT-2002;

21-CCT-2002;

21-CCT-2002;

21-CCT-2002;

21-CCT-2002;

21-CCT-2002;

21-CCT-2002;

22-CCT-2002;

23-CCT-2002;
                                                                                                                                                                                                                                                              Padigaru M,
Rieger DK,
Smithson G,
Zhong H;
                                                                                                                                                                                                                                            WPI;
                                                                                                                                                                                                                                                                      Alsobrook JP, Alvarez E, Anderson DW, Boldog FL, Catterton E, Chapoval A, Crabtree-Bokor JR, Edinger Ettenberg S, Gangolli EBA, Gerlach VL, Gorman L, Gu Gusev VY, Herrmann JL, Ji W, Kekuda R, Li L, Liu Maclachlan T, Malyankar UM, Mezick AJ, Milet I, M Padigaru M, Patturajan M, Pena CEA, Peyman JA, Rah Rieger DK, Rothenberg ME, Sciore P, Shenoy SG, Shi Smitheon G, Spytek KA, Stone DJ, Vernet CAM, Voss
                                                                                                                                                                                                                                                                                                                                                                 (CURA-)
                                                                                                                                                                                                                                            2004-081935/08
                                                                                                                                                                                                                                                                                                                                                                 CURAGEN
                                                                                                                                                                                                                                                                                                                                                                                   2002US-0406355P.
2002US-0410084P.
2002US-0412528P.
2002US-0414831P.
2002US-0414839P.
2002US-0414840P.
2002US-0417186P.
2002US-0417186P.
2002US-0417406P.
2002US-0423139P.
2002US-0423139P.
2002US-0423139P.
2002US-0423139P.
2002US-0423139P.
2002US-0423139P.
2002US-0423198P.
                                                                                                                                                                                                                                                                                                                                                                 CORP.
                                                                                                                                                                                                                                                               g ME, sur
A, Stone DJ,
                                                                                                                                                                                                                                                                                                            Boldog FL, Casman SJ;
r JR, Edinger SR, Ellerman
Gorman L, Gunther E, Guo X
, Li L, Liu X, Macdougall
                                                                                                                                                                                                                                                                          Voss EZ,
                                                                                                                                                                                                                                                                               I, Mishra VS;
Raha D, Rast
Shimkets RA;
                                                                                                                                                                                                                                                                         Zhong
                                                                                                                                                                                                                                                                                          Rastelli
                                                                                                                                                                                                                                                                          3
                                                                                                                                                                                                                                                                                             ŗ,
                                                                                                                                                                                                                                                                                                                JR;
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New NOVX treating obesity, and polypeptides and NOVX-associated of ij ptides and nucleic acid molecules useful for preventing essociated disorders, e.g. cancer, diabetes, infection or chromosome mapping, tissue typing or pharmacogenomics. o H

Disclosure; SEQ ij ĕ 1479; 1880pp; English.

neuroprotective, mostropic, anorectic, antidiabetic, antimicrobial, and antilipaemic activity, and may have a use in gene therapy, and as a vaccine. The polypeptides are encoded by NOVX polynucleotides comprising any of the 303 fully defined nucleotide sequences given in the specification. The polypeptide is useful in the manufacture of a medicament for treating a syndrome associated with a human disease. The polypeptide, polynucleotide and antibody are useful in diagnosing, treating or preventing NOVX-associated disorders, e.g. cancer, cachexia, Alzheimer's disease, Parkinson's disease, obesity, diabetes, infectious diseases, metabolic syndrome x or dyslipidaemias. The nucleic acids are further used as hybridisation probes, in chromosome typing, preventive medicine, and pharmacogenomics. I is used in the exemplification of the invention. polypeptide invention relates to a novel isolated polypeptide (NOVX). A ypeptide of the invention has cytostatic, immunomodulator, roprotective, nootropic, anorectic, antidiabetic, antimicrobial, The mapping, present tissue sequence

Sequence 21 B₽; σ ₽, σ Ç ហ ດ 4 7; 0 ς, 0 Other;

0,

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RESULT 1822
ADH23246/c
ID ADH2324
XX
AC ADH2324
XX
AC ADH2324
XX
AC ADH2324
XX
                                                                       밁
                                                                                  5
                                                                                                     Query Match
Best Local S
Matches 17
 25-MAR-2004
                ADH23246;
                                ADH23246
                                                                                      3066
                                                                       μ
                                                                                                             Similarity
                               standard;
                                                                       CTGCAGTCATCACAGGTCAAG
                                                                                      стесявасстстсявевсяме зове
                                                                                                      Conservative
 (first entry)
                                DNA;
                                                                                                            0.3%;
                                21
                                BP
                                                                                                      0
                                                                                                             Score
Pred.
                                                                                                      Mismatches
                                                                                                              14.6;
No. 1
                                                                                                             No.
                                                                                                            .1e+03
                                                                                                                     田
                                                                                                                     ۲.
                                                                                                                    Length
                                                                                                                     21;
                                                                                                     0
                                                                                                      Gaps
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06-JUN-2002;
06-JUN-2002;
06-JUN-2002;
06-JUN-2002;
07-JUN-2002;
07-JUN-2002;
07-JUN-2002;
07-JUN-2002;
 17-JUN-2002;
19-JUN-2002;
19-JUN-2002;
21-JUN-2002;
21-JUN-2002;
06-AUG-2002;
09-AUG-2002;
09-AUG-2002;
09-AUG-2002;
12-AUG-2002;
12-AUG-2002;
12-AUG-2002;
13-AUG-2002;
26-AUG-2002;
27-AUG-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              anorectic; antidiabetic; antimicrobial; antilipaemic; gene therapy; vaccine; cancer; cachexia; Alzheimer's disease; Parkinson's disease; obesity; diabetes; infectious disease; metabolic syndrome X; dyslipidaemia; ss; PCR; primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO2003102155-A2
                                                                                                                                                                                                                                                      17-JUN-2002;
                                                                                                                                                                                                                                                                                                                                                                                                   11-JUN-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         10-JUN-2002;
                                                                                                                                                                                                                                                                                                       12-JUN-2002;
                                                                                                                                                                                                                                                                                                                           12-JUN-2002;
2002US-0387635P

2002US-0387636P

2002US-0387634P

2002US-0387634P

2002US-0387666P

2002US-0387666P

2002US-0387666P

2002US-0387866P

2002US-0387866P

2002US-0387869P

2002US-0387943P

2002US-0389134P

2002US-0389114P

2002US-0389114P

2002US-0389144P

2002US-0389144P

2002US-0389144P

2002US-0389144P

2002US-0389144P

2002US-0389144P

2002US-0389144P

2002US-0389144P

2002US-0389144P

2002US-0401628P

2002US-0401628P

2002US-04016353P

2002US-0403531P

2002US-0403531P

2002US-0403531P

2002US-0403531P

2002US-0403531P

2002US-0403531P

2002US-0403531P

2002US-0403532P

2002US-0403531P

2002US-0403531P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2002US-0386041P.
2002US-0386047P.
2002US-0386376P.
2002US-0386453P.
2002US-0386864P.
2002US-0386796P.
2002US-0386714P.
2002US-0386914P.
2002US-0386914P.
2002US-0386914P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2003WO-US017430
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,..

CTGCAGTCATCACAGGTCAAG

21

3066 CTGCAGACCTCTCAGGGCAAG 3086

Query Match Best Local S Matches 17

Similarity

0.3%;

Score 14.6; Pred. No. 1

.1e+03

DB 1;

Length Indels

21;

0;

Gaps

0

17;

Conservative

0

Mismatches

RESULT 1821 ADH72583

ADH72583 standard;

DNA;

21

8×3×4×8

25-MAR-2004 ADH72583;

(first entry)

Human reverse PCR primer of the invention SEQ ID NO:1479.

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12-SEP-2002
23-SEP-2002
33-SEP-2002
30-SEP-2002
30-SEP-2002
30-SEP-2002
30-SEP-2002
30-SEP-2002
30-CTT-2002
23-CCT-2002
23-CCT-2002
23-CCT-2002
23-CCT-2002
23-CCT-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Alsobrook JP, Alvarez E, Anderson DW, Boldog FL, Casman SJ;
Catterton E, Chapoval A, Crabtree-Bokor JR, Edinger SR, Ellerman K;
Ettenberg S, Gangolli EA, Gerlach VL, Gorman L, Gunther E, Guo X;
Gusev VY, Herrmann JL, Ji W, Kekuda R, Li L, Liu X, Macdougall JR;
Maclachlan T, Malyankar UM, Mezick AJ, Millet I, Mishra VS;
Padigaru M, Patturajan M, Pena CEA, Peyman JA, Raha D, Rastcelli L;
Rieger DK, Rothenberg ME, Sciore P, Shenoy SG, Shimkets RA;
Smithson G, Spytek KA, Stone DJ, Vernet CAM, Voss EZ, Zhong M;
                                specification. The polypeptide is useful in the manufacture of a medicament for treating a syndrome associated with a human disease. The polypeptide, polypuclestide and antibody are useful in diagnosing, treating or preventing NOVX-associated disorders, e.g. cancer, cachexia, Alzheimer's disease, Parkinson's disease, obesity, diabetes, infectious diseases, metabolic syndrome X or dyslipidaemias. The nucleic acids are further used as hybridisation probes, in chromosome mapping, tissue typing, preventive medicine, and pharmacogenomics. The present sequence is used in the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                               New NOVX
                                                                                                                                                                                polypeptide of the invention has cytostatic, imminomodulator, neuroprotective, nootropic, anorectic, antidiabetic, antimicrobial, and antilipaemic activity, and may have a use in gene therapy, and as a vaccine. The polypeptides are encoded by NOVX polynucleotides comprising any of the 303 fully defined nucleotide sequences given in the analyses of the sequences of the sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Zhong
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            05-NOV-2002;
05-NOV-2002;
 Sequence
                                                                                                                                                                                                                                                                                                                Disclosure; SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2004-081935/08.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CURA-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CURAGEN
                                                                                                                                                                                                                                                                                                                                           polypeptides and nucleic acid molecules useful for preventing NOVX-associated disorders, e.g. cancer, diabetes, infection or and in chromosome mapping, tissue typing or pharmacogenomics.
   21
BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2002US-041084P
2002US-041252BP
2002US-0412731P
2002US-0414801P
2002US-0414830P
2002US-0417186P
2002US-0417186P
2002US-0417406P
2002US-0417406P
2002US-042154P
2002US-0423130P
2002US-0423130P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2002US-00423798.
2002US-0423798P.
2002US-0425453P.
                                                                                                                                                                                                                                                                              relates to a novel
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CORP
 Α,
                                                                                                                                                                                                                                                                                                               NO 1480; 1880pp;
   6 C;
   5
G;
   4 T;
                                                                                                                                                                                                                                                                             isolated polypeptide (NOVX)
   0 U;
                                                                                                                                                                                                                                                                                                                English.
     0 Other;
                                                                                                                                                                                                                                                                              >
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õ

29-JUL-2004

(first

entry

IL4 receptor DNA fragment 1111.

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Coligonuclectides are derived from a gene encoding or regulating CC expression of a target polypeptide associated with lung airway or lung CC dysfunction or cancer and can be anti-sense to the corresponding mRNA. CC The invention also describes a kit, that comprises: (a) a delivery CC device, in separate containers, (b) the oligonuclectides, (c) instructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, analysesic, hypotensive, immunosuppressive and cytostatic activity, is a CC beta-adrenergic agonist. The composition is useful for preventing or CC treating a respiratory, lung or malignant disease. The administered composition comprises oligo and is administered to reduce the production or availability, or to increase the degradation of the target mRNA or to reduce the amount of target polypeptide present in the lungs. The CC pulmonary obstruction, and/or bronchoconstriction and/or lung conflammation, allergies and/or surfaceant hypoproduction are associated conflammation, allergies asthma, impeded respiration, respiratory hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary transplantation rejection, pulmonary infections, bronchitis or cancer. The reduced adenosine content of the anti-sense oligos corresponding to the oligonacleotides into products that free adenosine into the system c.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to prevent any unwanted effects due to it
Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Nyce JW,
Miller S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      bronchoconstriction, respiratory tract inflammation, allergies and reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors, surfactant depletion or hyposecretion, when administered to a mammal. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 15; SEQ ID NO 10489; 763pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted nucleic acids associated with lung airway or lung dysfunction, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            surfactant depletion; antiallergic; antiinflammatory; antiasthmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory distress syndrome; allergic rhinitis; pulmonary hypertension; emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;
                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             comprising oligonucleotides,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                This invention describes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    bronchodilating agent.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2003-093058/08.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WO200285309-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         respiratory tract
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human; antisense;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          24-APR-2001; 2001US-0286036P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                23-APR-2002; 2002WO-US013143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      31-OCT-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             pulmonary transplantation rejection; ds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (EPIG-)
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Tang
                                                      BP;
                                                      0
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L, Shahabuddin
                                                     P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     bronchoconstriction; allergy; hyposecretion; pain; inflammation; adenosine sensitivity; lung; cancer;
80
                                                     11
.044
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                a novel
                                                      4
Score 14.6;
Pred. No. 1.
                                                     ü
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             effective for alleviating
                                                     σ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              composition
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Katz
                                                     T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    'n
6; DB 1;
1.1e+03;
                                                      0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pabalan J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (a) a first active
                 Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Aguilar
                 21;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              agent
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** Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 1819
ADG14791
ID ADG1479
 $X8X8X8X8
                                                                                         ADH72
                                                                                                                                  밁
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                                                                                                                                                                                                                   밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      á
                                                                                                     RESULT 1820
                                                                                                                                                                           Matches
                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                             The invention relates to an isolated nucleic acid which comprises the gene of a retrovirus associated with multiple sclerosis or rheumatoit arthritis. The methods and compositions of the present invention are useful for diagnosing, preventing and/or treating multiple sclerosis and/or rheumatoid arthritis. The present sequence is used in the
human; cytostatic; immunomodulator;
                    Human forward PCR
                                         25-MAR-2004
                                                                                                                                                                                                                  Sequence 21
                                                                                                                                                                                                                                                                                                           Example 10;
                                                                                                                                                                                                                                                                                                                               retrovirus, useful for diagnosing, presclerosis and/or rheumatoid arthritis.
                                                                                                                                                                                                                                                                                                                                                   New isolated nucleic acid and their fragments
                                                                                                                                                                                                                                                                                                                                                                                                                                             26-NOV-1996;
26-NOV-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          03-APR-2002; 2002US-00114104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              23-OCT-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Multiple sclerosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ss; pol
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MSRV-1 PCR primer
                                                             ADH72584
                                                                                 ADH72584 standard;
                                                                                                                                                                                                                                                                                                                                                                       WPI; 2004-032461/03.
                                                                                                                                                                                                                                                                                                                                                                                           Komurian-Pradel
                                                                                                                                                                                                                                                                                                                                                                                                     Perron H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US2003198647-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           26-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADG14791;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADG14791 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                         (INMR)
                                                                                                                                                                                   Local
                                                                                                                                              3581 CCTGAGTTCCTTCCCTAAGCC 3601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2064 GGGAACAAGGGAGCCGTGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    21 GAGAACAACGGAGGCGCGGGG
                                                                                                                                                                         1 Similarity
17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   gene; retrovirus; multiple sclerosis; rheumatoid arthritis;
                                                                                                                                   CCTGAGTTCTTGCACTAACCC
                                                                                                                                                                                                                                                                                                                                                                                         Beseme F, Bedin F, Para
radel F, Jolivet-Reynaud
                                                                                                                                                                                                                                                                                                                                                                                                                         MERIEUX
                                                                                                                                                                                                                  BP; 4 A;
                                                                                                                                                                                                                                                                                                           SEQ ID NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                           Conservative
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                                         (first
                                                                                                                                                                                                                                                                                                                                                                                                                                            96US-00756429
97US-00979847
                    primer of the invention SEQ ID NO:1480.
                                                                                DNA;
                                                                                                                                                                                                                                       the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       associated retrovirus
                                         entry)
                                                                                                                                                                                  0.3%;
                                                                                                                                                                                                                 8 C; 3 G; 6 T;
                                                                                                                                                                                                                                                                                                           50; 193pp; English.
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                                                                                                                                                                                     Pred.
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naud C, Mandrand
                                                                                                                                                                           Mismatches
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                                                                                                                                                                                     No.
                                                                                                                                                                                                                                                                                                                                        preventing
                                                                                                                                                                                                                  0 U;
neuroprotective; nootropic;
                                                                                                                                                                                   ..1e+03;
                                                                                                                                                                                                                   0 Other;
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and/or
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                                                                                                                                                                                                                                                                             rheumatoid
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ADK60842
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Query Match
Best Local S
Matches 17
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Best Local Similarity
Matches 17; Conserv
                                                                                     The invention relates to a method of classifying an ovarian tumor as a BRCA-1-like or BRCA-2-like or non-BRCA-like tumor by: (1) determining a pattern of expression in the ovarian tumor of several markers given in the specification; and (2) comparing a similarity of the pattern of expression of the markers in the ovarian tumor to a pattern of expression of the markers in a comparison tissue of a known BRCA-1-like or BRCA-2-like or BRCA-2-like or non-BRCA-like tumor. The method is useful for classifying an ovarian tumor as a BRCA-1-like or RT-PCR primer used to semi-quantitatively measure gene expression in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 proliferation, hematopoiesis, wound healing and angiogenesis, in gene therapy, in generation of antibodies that bind immunospecifically to NOV substances for use in therapeutic or diagnostic methods. The nucleic acids are further used as hybridization probes, in chromosome mapping, tissue typing, preventive medicine, and pharmacogenomics. This sequence corresponds to a reverse PCR primer for one of the NOVX genes of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 21 BP; 1 A;
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                                                            Sequence
                                                                                                                                                                                                                                                                                                       Classifying an ovarian tumor as a BRCA-1-like or BRCA-2-like or non-BRCA-like tumor by determining a pattern of expression in the ovarian tumor of
                                                                                                                                                                                                                                                                                                                                                       WPI; 2003-689589/65
                                                                                                                                                                                                                                                                                                                                                                                   Jazaeri
                                                                                                                                                                                                                                                                                                                                                                                                                                                              13-FEB-2002; 2002US-0357031P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           13-FEB-2003; 2003WO-US004688
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          21-AUG-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO2003068054-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ss; ovarian tumor; BRCA-1-like; BRCA-2-like;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              06-MAY-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TOP2A gene specific primer for semi-quantitative RT-PCR.
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 Local Similarity
mes 17; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  expression;
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                                                                                                                                                                                                                                                                                                                                                                                                                  US DEPT HEALTH & HUMAN SERVICES. SLOAN KETTERING INST CANCER RES.
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                                                                                                                                                                                                                                                            SEQ
                                                            BP; 7 A; 7 C; 4 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                   Boyd J,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  primer.
                                                                                                                                                                                                                                                           NO 12; 137pp; English.
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            0.3%;
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0;
               Score 14.6; DB 1;
Pred. No. 1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 14.6;
Pred. No. 1
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Mismatches
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                               DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  non-BRCA-like
                              Length 21;
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 Indels
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Gaps
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3283 TGCCCCTGCACGTGAAGCAGA 3303

RESULT 1818 ABD19216/c ID ABD1921 XX AC ABD1921

ABD19216 standard;

DNA;

ABD19216;

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21

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RESULT 1817
ADJ12888/c
   S
                               Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                                                              This invention relates to a novel method for analysing chemically modified macromolecules. Specifically, it refers to a high throughput method for the parallel analysis of many potential sites of chemical modification (e.g. methylation) in DNA. The present invention describes treating the DNA with one or more chemical reagents that result in different base sequences depending upon the presence or absence of the modification of interest. Accordingly, a device comprising an array of probes is provided to hybridise with and select the altered DNA sequences that comprise the modifications of interest such as CGG island. In particular, this invention refers to analysing the methylation pattern of a region of the promoter for the tumour suppressor gene pl6 from two human lung tumour cell lines H69 and H1618. This oligonucleotide sequence is a human DNA probe used to immobilise CgG methylated DNA of the
                                                                                                                                                                                                                                                                                                                                                                   Analysis of chemical modification of DNA involves obtaining sample of
to be analyzed, treating DNA with chemical reagents that result in
different base sequences, and determining sequence of resulting DNA.
                                                                                       Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Garner HR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human DNA probe used to immobilise CpG methylated DNA SeqID 15.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADJ12888;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADJ12888 standard;
                                                                                                                                                                                                                                                                                                                                        Example 1; SEQ ID NO 15; 210pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2003-874843/81.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             27-JUN-2001; 2001US-0301370P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         27-JUN-2002; 2002US-00184085
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US2003152950-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       tumour
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      14-AUG-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        probe; ss; chemical modification; methylation; array; CpG island;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (GARN/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (LUEB/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /NINIM
      4579
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      suppressor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BALOG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MINNA J D.
LUEBKE K J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GARNER H R.
GTGTGTTCGGAGGGGTGAAAG 4599
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGTCCCTCCACGAGAAACAGA
                                                                                          BP; 4 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Minna JD,
                                 Conservative
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                                             0.3%;
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                                                                                          0;
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                                             Score 14.6; DB 1, Pred. No. 1.1e+03
                                                                                          G; 4 T; 0 U;
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                                 Mismatches
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                                                                                          0 Other;
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                                                             Length
                                  Indels
                                                             21;
                                 0
                                 Gaps
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                                                         RESULT 1815
ADK68307
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                                                                                                                                                                               Query Match
Best Local S
Matches 17
                                                                                                                                                                                                                                                                                methyltransferase (CCoAOMT2) gene that indicates high digestibility. Also disclosed are four specific mutant CCOAOMT2 sequences that differ from a 264 amino acid (aa) reference sequence as given in ADK69905. The alleles are detected from presence of genetic polymorphisms, especially any of 18 specified, that have, relative to a fully defined 1181 base pair sequence given in the specification as ADK69904. These polymorphisms may be detected by selective hybridisation of probes or by amplification then determining the size of the amplicon. Alternatively, the encoded proteins are detected. The inventive method is especially useful for assessing digestibility of maize, particularly for selection of strains. The nucleic acid that encodes the favourable mutants can be used to prepare transgenic plants that have increased digestibility, and as a primer used in an example from the protein. The current sequence represents a primer used in an example from the protein.
              ADK68307
                                                                                                                                                                                                                                         Sequence
                                           ADK68307 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Evaluating digestibility of fodder plants, useful for strain selection, comprises detecting alleles of the cafeoyl coenzymeA 3-0-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Digestibility; fodder; plant; cafeoyl coenzymeA 3-0-methyltransferase; CCoAOMT2; maize; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 2; SEQ ID NO 9; 54pp; French.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            14-DEC-2001; 2001FR-00016198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        14-DEC-2001; 2001FR-00016198
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 fodder plant comprising detecting the presence, or absence from the plant, of an allele of the cafeoyl coenzymeA 3-O-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20-JUN-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (GENO-) GENOPLANTE-VALOR SAS
                                                                                                                                                                                                                                                                      invention for
                                                                                                                                                   392
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                                                                                                                                                                                17;
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                                                                                                                                                                                              Similarity
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                                                                                                                                                   GCAGCCGAGGCCACCAAGAGG 412
                                                                                                                                                                                                                                         21
                                                                                                                                                                             0.3%;
nilarity 81.0%;
Conservative
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                                                                                                                                                                                                                                         BP; 6
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                                                                                                                                                                                                                                         Α;
                                                                                                                                                                                                                                                                   CCoAOMT2 polymorphism detection.
                                                                                                                                                                                                                                         7 C; 8
                                           21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                a method for
                                                                                                                                                                                                                                         G; 0
                                                                                                                                                                               0
                                                                                                                                                                                             Score 14.6;
Pred. No. 1.
                                                                                                                     21
                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                         T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               evaluating the digestibility of a presence, or absence, in material
                                                                                                                                                                                                                                         0 Other
                                                                                                                                                                                             .1e+03;
                                                                                                                                                                                                           DB 1;
                                                                                                                                                                                                         Length 21;
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anorectic; virucide; antibacterial; fungicide; protozoacide; nootrop; neuroprotective; antiparkinsonian; anticonvulsant; osteopathic; antiarthritic; antiinflammatory; dermatological; antiasthmatic; antiilpemic; gene therapy; metabolic disorder; diabetes; obesity; infectious disease; anorexia; cancer; cardiovascular disease; hypertension; atherosclerosis; neurodegenerative disorder; Alzheimer's disease; Parkinson's disease; epilepsy; immune disorder; osteoarthritis; hematopoietic disorders; inflammatory skin disorder; asthma; dyslipidemia; neurogenesis; cell differentiation; cell proliferation; hematopoietis; wound healing; angiogenesis;
chromosome mapping; pharmacogenomic; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               antidiabetic; anorectic; cardiant; hypotensive; antiarteriosclerotic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  06-MAY-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 primer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                         nootropic;
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01-APR-2002; 05-APR-2002; 05-APR-2002; 05-APR-2002; 12-APR-2002; 30-MAY-2002; 17-JUN-2002; 13-AUG-2002; 15-AUG-2002; 22-APR-2002; 15-MAY-2002; 30-MAY-2002; 01-APR-2003; 16-0CT-2003. WO2003085124-A2 2002US-0374379P 2002US-0380973P 2002US-038429P 2002US-0384329P 2002US-0389729P 2002US-040349P 2002US-040349P 2003US-0403748P 2003US-0403748P 2002US-0370969P. 2002US-0372019P. 2002US-0369065P 2002US-0370279P 2003WO-US009775

(CURA-) CURAGEN CORP.

Alsobrook JP, Bento P, Boldog FL, Burgess CE, Casman SJ; Crabtree-Bokor JR, Edinger SR, Ellerman K, Fernandes ER, Gerlack Grosse WM, Gunther E, Gusev VY, Heyes MP, Lepley DM, Li L; Macdougall JR, Malyankar UM, Millet I, Patturajan M, Peyman JA; Rastelli L, Rieger DK, Shenoy SG, Shimkets RD, Smithson G, Stovernet CAM, Voss EZ; Gerlach VL; Stone DJ;

WPI; 2003-812730/76.

New isolated NOVX polypeptides and polynucleotides, useful for preventing, diagnosing or treating NOVX-associated disorders, e.g. osteoarthritis, obssity, atheroscierosis, cancer, Parkinson's disease, or infections

Disclosure; SEQ ID NO 233; 323pp; English

The invention relates to novel NOVX protein and their encoding DNA's, CC mature forms of the proteins or sequences that are at least 95% identical CC to, or having one or more conservative amino acid substitutions in, the CC proteins. The polypeptides, nucleic acid molecules and antibodies are exceeded in the manufacture of a medicament for treating a syndrome CC associated with a human disease, preferably a NOVX-associated disorder. CC The nucleic acid molecules, polypeptides and antibodies are useful for CC treating, preventing or diagnosing diseases such metabolic disorders, CC diabetes, obssity, infectious diseases (viral, bacterial, fungal, CC helminthic, and protozoal), anorexia, cancer, cardiovascular diseases CC (hypertension, atherosclerosis), neurodegenerative disorders, Alzheimer's CC disease, Parkinson's disease, epilepsy, immune disorders skin disorders, asthma, and various dyslipidemias. The nucleic acids and polypeptides may CC also be used as targets for the identification of small molecules that CC modulate or inhibit e.g. neurogenesis, cell differentiation, cell

Score 14.6; Pred. No. 1.

; DB 1; 1.1e+03;

Length

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RESULT 1812
ABZ95247/c
ID ABZ9524
The invention relates to a novel pharmaceutical composition, which has a CC first active agent comprising an oligonucleotide antisense to the CC initiation codon, coding region, 5 or 3 end genomic flanking regions, CC 5 and 3 intron-exon junctions, or regions within 2-10 nucleotides of CC junctions of genes encoding a polypeptide associated with lung and/or CC nasal airway dysfunction and a second active agent comprising an CC antiinflammatory steroid and ubiquinone. A composition of the invention CC immunosuppressive, and cytostatic activity. The composition may have a CC use in antisense gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also CC for enhancing the prophylattic or therapeutic respiratory effect of an CC entiinflammatory steroid in a subject, for reducing or depleting levels of of, or reducing sensitivity to adenosine, reducing levels of adenosine creceptor, producing bronchodilation, increasing levels of ubiquinone or CC lung surfactant in a subject s tissue, or treating bronchoconstriction, lung sulfammation, lung allergies, or a respiratory disease or condition.

CC Note: The sequence data for this patent is mot represented in the printed specification, but was obtained in electronic format directly from WIPO
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Nyce JW, .
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy; antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
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                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure; SEQ ID NO 10489; 872pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                           corresponding RNAs,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ABZ95247;
                               ftp.wipo.int/pub/published_pct_sequences
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RESULT 1813
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                                                                                                                                                               This invention relates to a novel library of immunoglobulin (IgG) molecules. Specifically, it refers to prototype IgG molecules that each may comprise a mutation where a single predetermined amino acid has been substituted in one or more positions within one or more of the six complementarity-determining regions (CDRs) of the anti-HIV human GP-120 monoclonal antibody (scFV). The present invention describes a method for generating a library of prototype mutant IgGs (for example IgM, IgA, IgD or a Fab fragment of IgG), which can be used to study protein structure and function via a walk-through mutagenesis procedure. Accordingly, the libraries may be used for the systematic analysis of the binding regions of prototype IgG molecules. Furthermore, it provides specific information regarding particular mutations that alter the interaction of an IgG with its antigen, including multiple interactions by amino acids of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New libraries for a prototype IgG (IgG) comprising mutated IgG or nucleic acids encoding a mutated IgG, useful for generating specific information on particular mutations that alter interaction of an IgG with its
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GP120; antibody; scFV; ss; library; immunoglobulin;
walk through mutagenesis; anti-HIV; CDR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2003-854029/79.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example B; Fig 8a; 57pp; English.
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                                                                             CDRs. This oligonucleotide sequence is a degenerate human y VL CDR2 DNA oligo designed to introduce a targeted amino more positions, a method of the invention.
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RESULT 1810
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useful for suppressing the binding of one or more detectable nucleic acid probes, that are greater than 100 base pairs and that have been derived from genomic nucleic acid, to one or more undesired sequences in an assay for determining target genomic nucleic acid of a sample. The method comprises contacting the sample with the mixture of probes (preferably comprising 5-50 probes), contacting the sample with the one or more detectable nucleic acid probes, and determining the target genomic nucleic acid of the sample by determining the hybridization of the one or more detectable nucleic acid probes to the target genomic nucleic acid of the sample is metaphase to the target genomic nucleic acid is contained in a fixed tissue or a cell, and the sample is metaphase spreads, interphase nucleic or nucleic found in paraffin embedded tissue material or frozen tissue sections. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Non-nucleotide probe for suppressing binding of detectable nucleic acid probes to undesired sequences, has aggregate nucleobase sequence homologous to randomly distributed repeat sequence of genomic nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 10;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Non-nucleotide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               tissue or organism. The disease or condition may include pulmonary diseases such as restenosis, atherosclerosis, Alzheimer's disease,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      nootropic, antiparkinsonian and anticonvulsant activities and may be useful for down-regulating the expression of an endogenous mammalian target gene and therefore in the treatment of any disease or condition
                                                                                                                                                                                                                                                                                                                                                                                                  The present sequence represents a non-nucleotide probe.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Hyldig-Nielsen JJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ħ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   probe of the invention #23.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  25;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9 C; 1 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  103pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 14.6;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                              English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Williams
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ç,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     .1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 21;
                                                                                                                                                                                                                                                                                                                                                                                              The probe is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    88;
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RESULT 1811
ADH93425/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   countries you both the sample and control genomic nucleic acid and the array control to both the mixture of the probe under suitable hybridization conditions, contacting the array with treated mixture of sample and control genomic nucleic acid under suitable hybridization conditions, and comparing the intensities of the signals from the differential labels of the array to that caused by hybridization of the probes to genomic nucleic acid, thus contact a compared with the relative copy numbers of sequences in the case sample as compared with the relative copy numbers of substantially contact as compared with the relative copy numbers of substantially contact as determined using an intercalating dye or a detectable antibody, cor its fragment, that is specific for a nucleic acid/nucleic acid hybrid. Cor its fragment, that is specific for a nucleic acid/nucleic acid hybrid. Cor its fragment, that is specific for a nucleic acid to be tested and the reference of nucleic acid are labelled with detectable moiety such that hybridization of the genomic array is determined by determining the presence, absence, amount or location of the detectable label on the one or more genomic carrays. The genomic array comprises nucleic acid that is prepared from Corporates. The presence array comprises nucleic acid that is prepared from Corporates.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human
                                                                                                                                                                                                                       WPI; 2003-819215/77
                                                                                                                                                                                                                                                                                                                         11-DEC-2001; 2001JP-00377637
                                                                                                                                                                                                                                                                                                                                                          24-JUN-2003
                                                                                                                                                                                                                                                                                                                                                                                            JP2003174883-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 21
                                                                                                                                                                                                                                                                                      11-DEC-2001; 2001JP-00377637
                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               22-APR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADH93425;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADH93425 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     represents a non-nucleotide probe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The method comprises treating a sample of genomic nucleic acid control genomic nucleic acid, which are differentially labelled
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           probe is also useful in comparing a sample of genomic nucleic acid with that of a control sample using a genomic nucleic acid reference array.
                                                                                                                                                                                                                                                      (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4999 TECTCTCCAGCCTGGCTGCCA 5019
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21
                                                                                                                                                                                                                                                                                                                                                                                                                                                         gene sequence; single nucleotide polymorphism;
e diagnosis; ss; PCR; primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PCR primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   B₽;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3
A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 81.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   6 C; B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             #270.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   G; 4 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 14.6; DB 1;
Pred. No. 1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indele
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SNP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    21;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
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The invention comprises isolated human gene sequences and PCR primer sequences which can be used to detect single nucleotide polymorphisms (SNPs). The DNA sequences of the invention are useful for detecting SI existing in human genes and for the diagnosis of human disease. The

represents a human gene PCR primer of

invention

SNPe

Sequence 21 BP; 1 A;

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C;

G; 8 T; 0 U; 0 Other;

present DNA sequence

Claim 2; SEQ

ij

NO 1262; 529pp; Japanese.

Polynucleotide for detecting single nucleotide polymorphisms existing human gene, contains isolated human gene having specified sequence.

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FFX8X3333333333333X8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                              20-FEB-2002; 2002US-0358580P.
11-MAR-2002; 2002US-0363124P.
06-JUN-2002; 2002US-0386782P.
15-AUG-2002; 2002US-0406784P.
29-AUG-2002; 2002US-0406784P.
05-SEP-2002; 2002US-0408378P.
09-SEP-2002; 2002US-040939P.
14-JAN-2003; 2003US-0449922P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to a novel double-stranded short interfering nucleic acid (siNA) that downregulates expression of the breakpoint cluster region-v-abl Abelson murine leukaemia viral oncogene homologue 1 (BCR-ABL) gene. The siRNA of the invention demonstrates cytostatic activity and may be useful for modulating expression of the BCR-ABL gene, as well as for treating leukaemia or lymphoma and in diagnosis, drug screening, target identification and validation, genetic engineering, gene function studies and gene mapping. The current sequence is that of the human ERG2 (v-ets erythroblastosis virus E26 oncogene like (avian)) siDNA-RNA hybrid of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 21 BP; 5 A; 9 C; 1 G; 2 T; 4 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    and diagnosis of leukemia and lymphoma, downregulates the breakpoint cluster region-Abelson (BCR-ABL) gene.
                                                                                                                         Mcswiggen
                                                                                                                                                                                                                                                                                                                         20-FEB-2003; 2003WO-US005234
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADF85358
                                                                                                                                                     (RIBO-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADF85358 standard;
                                                 double-stranded interfering nucleic diagnosis of leukemia and lymphoma,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4909 CAGCCATCACCAGCCACAGTT 4929
                                                                                               2003-679889/64.
                                                                                                                                                                                                                                                                                                                                                                                                           sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                 interfering nucleic acid; siNA; breakpoint cluster region; Abelson murine leukaemia viral oncogene homologue 1; BCR-A teatic; leukaemia; lymphoma; human; -ss; DNA-RNA hybrid; ERG2; erythroblastosis virus E26 oncogene like (avian).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ERG2-targeted siDNA-RNA hybrid - SEQ ID 1652.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       16;
                                                                                                                                                     RIBOZYME PHARM INC.
                                       region-Abelson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CAACCAUCUCCUUCCACAGTT 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQ ID NO 1668; 197pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                         Beigelman L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.3%;
                                       (BCR-ABL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ВP
                                                                                                                         Chowrira
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ۲.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 14.6;
Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                       gene.
                                                                                                                         8
                                                                 acid, useful e
                                                    downregulates
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   .1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                    the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BCR-ABL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0
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Example 7;

SEQ

Ħ ĕ

1652;

197pp; English

target of the

gene comprising double-stranded molecule that Example 24;

SEQ ID

ĕ

377;

593pp;

English.

The invention relates to a double-stranded short interfering nucleic

down-regulates expression of an endogeno ng one or more chemical modifications and ed siNA comprises about 21 nucleotides. Ti

endogenous

each s mammalian each strand e siNA of

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RESULT 1809
ADG29811
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Best Local S
Matches 16
                                                                                                                                                                                                                                                 29-AUG-2002;
05-SEP-2002;
09-SEP-2002;
                                                                                                                                                                       Mcswiggen G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to a novel double-stranded short interfering nucleic acid (sINA) that downregulates expression of the breakpoint cluster region-v-abl Abelson murine leukaemia viral oncogene homologue 1 (BCR-ABL) gene. The siRNA of the invention demonstrates cytostatic activity and may be useful for modulating expression of the BCR-ABL gene, as well as for treating leukaemia or lymphoma and in diagnosis, drug screening, target identification and validation, genetic engineering, gene function studies and gene mapping. The current sequence is that of the human ERG2 (v-ets erythroblastosis virus E26 oncogene like (avian))
                                                                                                                      New double-stranded short interfering nucleic acid molecule, useful for
                                                                                                                                                                                                                                                                                     11-MAR-2002;
06-JUN-2002;
                                                                                                                                                                                                                                                                                                                                                                                                               Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                   amyotrophic lateral sclerosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        double-stranded short interfering nucleic acid; siNA; antiarteriosclerotic; neuroprotective; nootropic; ant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                               WPI; 2003-731676/69.
                                                                                                                                                                                                                                                                                                              20-FEB-2002;
                                                                                                                                                                                                                                                                                                                                       20-FEB-2003; 2003WO-US005028
                                                                                                                                                                                                                                                                                                                                                                                       WO2003074654-A2
                                                                                                                                                                                                                                                                                                                                                                                                                             Unidentified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                               anticonvulsant; pulmonary disease; restenosis; atherosclerosis; Alzheimer's; Parkinson's; epilepsy; dementia; huntington's;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ERG2-targeted sina DNA-RNA hybrid -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADG29811
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              siDNA-RNA hybrid of the invention.
                                                                                             for treating
                                                                                                           down-regulating
                                                                                                                                                                                                            (SIRN-)
                                                                                                                                                                                                                                     L5-JAN-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4909 CAGCCATCACCAGCCACAGTT 4929
                                                                                                                                                                                                            SIRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CAACCAUCUCCUUCCACAGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21 BP; 5 A; 9 C; 1 G; 2 T; 4 U;
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                                                                                                                                                                                                                                   2002US-0358580P.
2002US-0363124P.
2002US-0366782P.
2002US-0406784P.
2002US-040873P.
2002US-0409237P.
2003US-0440129P.
                                                                                                                                                                       Usman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                             diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                    Beigelman L, Cho
man N, Thompson
                                                                                                                                                                                                            THERAPEUTICS INC.
                                                                                                            the expression of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               76.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RNA;
                                                                                               that respond
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       21
                                                                                                                                                                                    Chowrira B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 14.6;
Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                  gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
                                                                                            an endogenous mammalian target
to modulation of gene expressi
                                                                                                                                                                                                                                                                                                                                                                                                                                                   therapy; ss; DNA-RNA hybrid; ERG2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1.1e+03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0 Other;
                                                                                                                                                                                    Pavco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              377.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      progression of diabetes mellitus comprising administering a platelet activating factor acetylhydrolase (PAF-AH) product to a subject at risk of developing diabetes mellitus or with diabetes mellitus. The PAF-AH product is useful for treating or preventing diabetes, for slowing the progression of diabetes mellitus, or reducing the incidence of diabetes mellitus. Note: The sequence listing included with this patent seems to be from a totally different patent. Only 2 human sequences were mentioned in the text, not the 38 (2 yeast plus 36 synthetic) sequences shown. The present sequence is one of the 36 sequences included in the sequence listing.
                                            20-FEB-2002;
11-MAR-2002;
06-JUN-2002;
15-AUG-2002;
29-AUG-2002;
29-AUG-2002;
09-SEP-2002;
09-SEP-2002;
14-JAN-2003;
                                                                                                                                                                                                                                                          whose interfering nucleic acid; sINA; breakpoint cluster region; v-abl Abelson murine leukaemia viral oncogene homologue 1; BCR-AB; cytostatic; leukaemia; lymphoma; human; ss; DNA-RNA hybrid; ERG2; v-ets erythroblastosis virus E26 oncogene like (avian).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Preventing diabetes mellitus or slowing the progression of diabetes mellitus, comprises administering a platelet activating factor acetylhydrolase product to a subject having or at risk of having diabetes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (PETE/)
(YUAS/)
                                                                                                                                                     20-FEB-2003; 2003WO-US005234
                                                                                                                                                                            28-AUG-2003
                                                                                                                                                                                                   WO2003070972-A2
                                                                                                                                                                                                                                    Synthetic
                                                                                                                                                                                                                                                                                                                                           26-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                       ADF85366 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2003-902018/82
             (RIBO-)
                                                                                                                                                                                                                        Homo sapiens.
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                                                                                                                                                                                                                                                                                                                    ERG2-targeted
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17; Conserv
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YU A S.
             RIBOZYME
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                                           2002US-0358580P.
2002US-036784P.
2002US-0386782P.
2002US-0404039P.
2002US-0406784P.
2002US-0400878P.
2002US-0400878P.
2002US-0400878P.
2002US-040878P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0.3%;
ilarity 81.0%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BP; 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQ ID
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             PHARM INC
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                                                                                                                                                                                                                                                                                                                    siDNA-RNA hybrid -
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                                                                                                                                                                                                                                                                               region;
1; BCR-ABL;
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Best Local
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11-MAR-2002; 2002US-0363124P.
06-JUN-2002; 2002US-0366782P.
15-AUG-2002; 2002US-0404039P.
29-AUG-2002; 2002US-0406784P.
05-SEP-2002; 2002US-0409293P.
09-SEP-2002; 2002US-0409293P.
14-JAN-2003; 2003US-0439922P.
15-JAN-2003; 2003US-0440129P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     nucleic acid (sinA) that downregulates expression of the breakpoint cluster region-v-abl Abelson murine leukaemia viral oncogene homologue 1 (BCR-ABL) gene. The siRNA of the invention demonstrates cytostatic activity and may be useful for modulating expression of the BCR-ABL gene, as well as for treating leukaemia or lymphoma and in diagnosis, drug screening, target identification and validation, genetic engineering, gene function studies and gene mapping. The current sequence is that of the human ERG2 (v-ets erythroblastosis virus E26 oncogene like (avian)) siDNA-RNA hybrid of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New
                                                                                                                                                                                                                                                                                                                                                                            short interfering nucleic acid; siNA; v-abl Abelson murine leukaemia viral c
                                                                                                                                                                                                                                                            28-AUG-2003
                                                                                                                                                                                                                                                                                                               Homo
                                                                                                                                                                                                                                                                                                                          Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                  Human ERG2-targeted siDNA-RNA hybrid -
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to a novel double-stranded short interfering nucleic acid (siNA) that downregulates expression of the breakpoin
                         WPI; 2003-679889/64
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                                                                                                                                                                                                                                                                                      WO2003070972-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADF85374;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADF85374 standard;
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                                                                           (RIBO-)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4909 CAGCCATCACCAGCCACAGTT
                                                                                                                                                                                                                                                                                                                                                  tatic; leukaemia; lymphoma; human; ss; DNA-RNA hy erythroblastosis virus E26 oncogene like (avian)
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16; Conserv
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                                                                           RIBOZYME
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                                                Beigelman L,
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                                                                                                                                                                                                                                                                                                                                                                                           breakpoint cluster region;
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DNA-RNA hybrid;
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double-stranded interfering nucleic acid, useful e.g.

for treatment

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CC epigenetically silenced genes. Specifically, it refers to the detection CC of epigenetically silenced genes. Specifically, it refers to the detection CC are transcriptionally inactive due to aberrant methylation at normally inactive due to aberrant methylation at normally cCC unmethylated CpG islands. Accordingly, these genes provide diagnostic CC diagnose various proliferative disorders, particularly oseophageal cancer CC and head and neck cancer. The present invention describes a genomic CC screening method to identify silenced genes in a cell suspected of a CC predisposition to, or exhibiting, unregulated growth. Accordingly, CC oligonuclectides of the genes identified herein are useful for detecting CC carcinoma. Furthermore, treatment can occur via gene therapy, using a CC demethylation agent such as a methyltransferase inhibitor (SARa-CO) or a cmethylation silenced gene in cancer cells. This oligonuclectide sequence cis an RT-PCR primer used to amplify those genes that were up-regulated as a result of treatment with a demethylation agent i.e epigenetically creatment cancer cells.
                                                                                                                                                                                                                                                   RESULT 1804
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Best Local S
Matches 17
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high throughput; CpG methylation; genomic sequence expression; microarray; methylation-silenced gene; demethylation action; cancer cell;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Identifying at least one epigenetically silenced gene associated with cancer useful for treating cancer comprises contacting an array of genome with nucleic acid molecule that reactivates expression of epigenetically
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       07-MAR-2002; 2002US-0362577P
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                                                                                                                                                                                                    ADG38509 standard; DNA; 21 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                This invention relates to novel methods of screening to identify
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                                                                   Human genomic
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                                                                                                                                                                                                                                                                                                                                                             1592 GGANACAGAGAAGAGAGAAGAT 1612
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                                                                                                               (first entry)
                                                                     CpG methylation assessment method-related PCR primer
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                                                                                                                                                                                                                                                                                                                                                                                                                            Score 14.6; DB 1; Length 21; Pred. No. 1.1e+03;
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upon methylation and in determining the efficacy and mechanisms of demethylation action in cancer cells. The present DNA sequence represents a PCR primer that was used in the exemplification of the invention.
                                                                                                                              The invention comprises a high throughput method for assessing genomic CpG methylation and expression of genomic sequences of a tissue sample. The method involves the use of a microarray that has affixed CpG-rich genomic probe fragments each comprising an exon sequence (or portion thereof) of an expressible gene. The method and microarray of the invention are useful for assessing genomic CpG methylation and expression of genomic sequences of a tissue sample. The method is useful for the identification of novel methylation silenced genes that are reactivated
                                       Sequence 21 BP; 7 A; 3 C; 9 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                             genomic sequences.
                                                                                                                                                                                                                                                                                                                                                           Microarray with affixed CpG-rich genomic probe fragments each comprising (a portion of) an exon sequence of an expressible gene, useful in a method for dual assessment of genomic CpG methylation and expression of
                                                                                                                                                                                                                                                                                                     Example 13; SEQ ID NO 117; 100pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Huang TH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        12-APR-2002; 2002US-0372140P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PCR; primer; ss; human.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Shi H;
   DB 1;
Length
     21;
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밁 S Matches Query Match Best Local : 4154 TCCTGCTGCCTCCTGCCC 4174 21 17; Similarity TCCTGCTCGCTAATCTTGCCC Conservative 0.3%; 0 Score 14.6; Pred. No. 1. Mismatches 1.1e+03; Indels 0 Gaps 0

RESULT 1805 ADG34463 Platelet activating platelet activating 07-MAY-1999; 99US-00306970. 31-JAN-2001; 2001US-00774414. 24-FEB-2003; 2003US-00373639. 20-NOV-2003 US2003215439-A1 Platelet activating factor associated DNA sequence ADG34463; ADG34463 standard; (DIET/) DIETSCH G N (first DNA: factor acetylhydrolase; factor; diabetes mellitus; entry) PAF-AH;

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ARESULT 1801
ADE34528
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                                                               origin. These proteins include GPCR185, GPCR186, GPCR187, GPCR188,

GPCR189, GPCR222 and GPCR223. Proteins of the invention are used in the

treatment and prevention of diseases associated with inflammation,

cangiogenesis and tissue neogenesis, including hepatitis, nephritis,

cdermatitis, pancreatitis, rheumatoid arthritis, osteoarthritis, atopic

dermatitis, asthma, diabetes, hypertipenda, Alzheimer's disease,

gastric ulcer, arteriosclerosis, hyperlipenda, Alzheimer's disease,

cdementia, obesity, pulmonary fibrosis, renal fibrosis, immune deficiency,

infertility, urinary blockage and cancer (such as cancer of the brain,

neck, tongue, lung, breast, pancreas, stomach, colon, duodenum, prostate,

bladder, ovary, womb or rectum). Primers of the invention are devised and

csynthesised based on G-protein coupled receptor consensus sequences and

used for 5'-ARCE (rapid amplification of cDNA ends) and 3'-RACE

amplification of human cDNA derived from adrenal and visual cortex RNA.

Sequences given in ADE34534-ADE34533 represent human G-protein coupled

receptor proteins, genes encoding them, and primers for the amplification

of these sequences.
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14-MAY-2002;
28-FEB-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Cytostatic; antiinflammatory; hepatotropic; nephrotropic; dermatological; antiarthritic; antiasthmatic; antidiabetic; hypotensive; antiulcer; antilipemic; antiarteriosclerotic; nootropic; neuroprotective; anorectic; immunomodulator; uropathic; antilifertility; G-protein coupled receptor; GPCR; GPCR185; GPCR186; GPCR187; GPCR189; GPCR222; GPCR223; hepatitis; nephritis; dermatitis; panoreatitis; rheumatoid arthritis; osteoarthritis; acopic dermatitis; asthma; disbetes; hypertension; inflammatory bowel disease; gastric ulcer; arteriosclerosis; hyperlipemia; Alzheimer's disease; dementia; obesity; pulmonary fibrosis; repal fibrosis; immune deficiency; infertility; urinary blockage; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      G-protein coupled receptor proteins, genes encoding them and antibodies recognizing them for treatment and diagnosis of cancer, inflammatory and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        gastrointestinal disorders.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Watanabe H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              14-MAR-2003; 2003WO-JP003050
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to G-protein coupled receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               29-JAN-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ ID NO 148; 274pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CTCAGAGCAGCCGGAGCCCGA 1714
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2002JP-00138013.
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Query Match

Sequence

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0 U;

standard;

DNA;

21 ВP

26-FEB-2004 ADF75381; ADF75381

(first entry)

Score 14.6; 4 T;

B 0 Other;

1; Length 21;

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Best Local Similarity
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                                                                                                                The invention relates to a method of diagnosing recurrent pregnancy (RPL). The method involves examining formin (Fmn)-2 gene for a muta and measuring biological activity and expression of Fmn-2, in which decreased levels indicates an increased risk for RPL; or examining person's formin-2 gene for polymorphisms, in which the presence of polymorphism indicates an altered risk for RPL. The method is used diagnosing and treating RPL e.g. in humans. The present sequence is primer used to amplify mouse Fmn-2 DNA
                                                                                                                                                                                                                                                 Diagnosing recurrent pregnancy loss comprises examining formin-2 gene for a mutation and measuring biological activity and expression of formin-2 identified to play a role in occyte development.
                                                                                            Sequence 21 BP; 4 A; 6 C; 6 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                             Example 11; Page 12;
                                                                                                                                                                                                                                                                                                    WPI; 2003-830607/77
                                                                                                                                                                                                                                                                                                                          Leder P,
                                                                                                                                                                                                                                                                                                                                                                                     13-APR-2000; 2000US-0196811P.
12-APR-2001; 2001US-00835232.
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                      114
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                                              17; Conserv
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LEADER B.
                      GTCTCCAGAGCCGGTCATTCC 134
GTCTGCAGAGGCTGTCAATCC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     primer;
                                               Conservative
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                                                          0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                loss; RPL; formin-2; Fmn-2; diagnosis; therapy;
                                                                                                                                                                                                                             Opp; English.
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Pred. No. 1.1e+03
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The invention relates to an isolated nucleic acid (NI) comprising at CC least 20 but not more than 1500 consecutive nucleotides of the optineurin CC promoter appearing as ADE13890. Also included are the optineurin promoter operably linked to a heterologous nucleic acid, a nucleic acid capable of detecting a single nucleotide polymorphism (SNP) in the optineurin CC promoter, a host cell comprising the promoter operably linked to a heterologous sequence, diagnosing or prognosing glaucoma in a sample CC heterologous sequence, diagnosing or prognosing glaucoma in a sample CC in a promoter region of the optineurin gene, associated with a glaucoma CC in a promoter region of the optineurin gene, associated with a glaucoma CC in a sample containing DNA, determining the presence or increased CC susceptibility to glaucoma or to a progressive ocular hypertensive CC disorder resulting in loss of visual field in a patient (or the severity CC or progression of glaucoma in a patient, comprising providing CC amplification reaction primers that direct amplification of a selected containing the presence or increased CC amplification reaction primers that direct amplification of a selected containing a sample containing the variation within the optineurin CC amplification primers that direct amplification of a selected containing a sample containing human genomic DNA, providing a nucleic acid capable of detecting a SNP located within an optineurin promoter, and CC capable of detecting a SNP located within an optineurin promoter, and containing the providing and also to treat glaucoma related disorders. The present sequence is an optineurin promoter motif, repeat element or contains or contains of the present sequence is an optineurin promoter motif, repeat element or contains or con
                                                                                                                                                  Query Match
Best Local S
Matches 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New nucleic acid sequences of the optineurin gene are useful to detect polymorphisms particularly single nucleotide polymorphisms in the optineurin promoter to diagnose, prognose and treat glaucoma and related
                                                                                                                                                                                                                                                                                                                 Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 11; SEQ ID NO 296; 159pp; English
                                                                                                                                                                                                                                                                                                                                                                                      putative regulatory
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                                                                         3905
21
                                                                                                                                                  l Similarity
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) RAYMOND V.
) MORISSETTE J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         <
                                                                 GACCCCGCCCACCCCGACGCC 3925
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ilarity 81.0%;
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                                                                                                                                              Score 14.6; D
Pred. No. 1.1e
0; Mismatches
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RESULT 1800 ADE51597 ID ADE5159

ADE51597 standard; DNA; 21

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Query Match
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Matches 17; Conserv

81.0%;

Score 14.6; DB 1; Length 21; Pred. No. 1.1e+03; O; Mismatches 4; Indels

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0 H 0 ς. 0 Other; oligonuceotide.

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The invention relates to a method of modulating cell necrosis comprising administering an agent that can modulate a BNIF3 gene or protein to a cell or animal. The method is useful inhibiting cell necrosis for treating a neurological disease (e.g. traumatic brain injury, ischaemic and haemorrhagic stroke, Alzheimer's disease, Huntington's disease, amyotropic lateral sclerosis (ALS), multiple sclerosis, AIDS, Parkinson's disease, Pick's disease, epilepsy, excitotoxicity, genetic disorders, inborn errors of metabolism, and neurogenesis) or a cardiovascular disease (e.g. cardiac hypoxia, cardiac hypoxia-reoxygenation, cardiac ischaemia-reperfusion injury, ischaemic heart disease, heart failure, heart hypertrophy, by-pass surgery, coronary angioplasty, vascular defects, congenital heart (defects) disease, cardiac cell muscle preventing or inhibiting neural cell death, cardiovascular cell death, or hypoxia-induced cerdideath. The present sequence represents a BNIP3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ss; human; cell necrosis; BNIP3; neurological disease; traumatic brain injury; ischaemic stroke; hamournhagic stroke; Alzheimer's disease; Huntington's disease; ALS; multiple sclerosis; AIDs Parkinson's disease; Pick's disease; epilepsy; genetic disorder; cardiovascular disease; cardiac hypoxia; cardiac hypoxia-reoxygenation; cardiac ischaemia-reperfusion injury; ischaemic heart disease; heart hypertrophy; by-pass surgery; coronary angioplasty.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Modulating cell necrosis, useful for treating cardiovascular (e.g. cardiac hypoxia or heart failure) or neurological diseases (e.g. Alzheimer's disease or multiple sclerosis), comprises administering
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Greenberg
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(GEIG/)
(KIRS/)
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29-JUN-2001;
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KIRSHENBAUM L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GREENBERG A H. GEIGER J D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             HELLNER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQ ID NO 14; 74pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ¥,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; 2000US-0215643P.
; 2000US-0219554P.
; 2001WO-US021043.
; 2001US-0348135P.
; 2001US-0344196P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ic induced cardiomyopathy; neural cell death; hypoxia-induced cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Geiger
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Kirshenbaum LA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Hellner
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cell death; death.
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                                                                                                                       RESULT 1798
ADE14184
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             homology to other known coding sequences. A pharmaceutical composition comprising the sirNA modulates SOST expression and modulates the ability of sclerostin to decrease osteoblastic activity. It is used for increasing bone density in a mammal and for decreasing apoptosis of bone cells (claimed). It can also be used to modulate bone resorption and augment bone mineralization, to prevent or treat apoptosis of bone related cells or loss of bone density, and to treat osteoporosis, osteomyelitis, hypercalcaemia, osteopenia brought on by surgery or steroid administration, Paget's disease, osteonecrosis, bone loss due to the property of the property of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-MAR-2002;
27-AUG-2002;
13-FEB-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present sequence is the antisense strand of a small interfering RNA (siRNA) designed to inhibit expression of the human SOST gene. This gene encodes sclerostin, a bone morphogenetic protein antagonist and regulator of bone matrix formation. The SOST target region (see ACF79822) for the SIRNA was selected for its high content of AA dinucleotides and minimal
           29-JAN-2004
                                                        ADE14184;
                                                                                                ADE14184 standard; DNA; 21 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                          rheumatoid arthritis, osteolytic metastasis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        siRNA to block expression of SOST (antisense strand)
                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 14; Page 32; 74pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Composition useful for modulating increasing bone density comprises
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (CELL-)
(SUTH/)
(GEOG/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      osteopathic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOST; sclerostin; small interfering RNA; siRNA; RNA interference;
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                                                                                                                                                                                                                                                            2419
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                                                                                                                                                                                                                  21
                                                                                                                                                                                                                                                                                                           l Similarity
17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LATHAM J.
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                                                                                                                                                                                                                                                            AAATCACGTTTGCCCCAACCT 2439
                                                                                                                                                                                                                                                                                                                                                                                                  21
                                                                                                                                                                                                                                                                                                                                                                                                  BP; 4
                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2002US-0361258P.
2002US-0406171P.
2003US-0447393P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cytostatic; DNA-RNA hybrid; gene therapy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2003WO-US006193
           (first entry)
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                                                                                                                                                                                                                                                                                                                            0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                  1 C; 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               n, Paget's disease, osteonecrosis, periodontal bone loss, prosthetic
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                                                                                                                                                                                                                                                                                                    Score 14.6; DI
Pred. No. 1.1e-
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                17;
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                                                                                                                                                                                                                                                                                                                                                 Length 21;
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                                                                                                                                                                                                                                                                                                         Gaps
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RESULT 1799 ADE14185/c

ADE14185

ADE14185 standard; DNA; 21

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                                                                                                                                                                                 The invention relates to an isolated nucleic acid (N1) comprising at CC least 20 but not more than 1500 consecutive nucleotides of the optineurin CC promoter appearing as ADE13890. Also included are the optineurin promoter operably linked to a heterologous nucleic acid, a nucleic acid capable of CC detecting a single nucleotide polymorphism (SNP) in the optineurin CC promoter, a host cell comprising the promoter operably linked to a ccl comprising detecting a polymorphism ccl in a promoter region of the optineurin gene, associated with a glaucoma cc phenotype), detecting a SNP sequence variation in a sample containing CC DNA, detecting the presence of an optineurin promoter sequence variation cc in a sample containing DNA, determining the presence or increased consceptibility to glaucoma or to a progressive ocular hypertensive ccl susceptibility to glaucoma in a patient, comprising providing compression of glaucoma, in a patient, comprising providing capable of detecting a palymorphism (comprising providing an patient (or the severity compression reaction primers that direct amplification of a selected containing a sample containing the variation within the optineurin comprising containing a sample containing the variation within the optineurin comprising containing a sample containing human genomic DNA, providing a nucleic acid capable of detecting a SNP located within an optineurin promoter, and compresent sequence is an optineurin promoter motif, repeat element or contained to treat glaucoma related disorders. The present sequence is an optineurin promoter motif, repeat element or contained to treat glaucoma related disorders.
                                             Best Local Similarity 81.0
Matches 17; Conservative
                                                                   Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New nucleic acid sequences of the optineurin gene are useful to detect polymorphisms particularly single nucleotide polymorphisms in the optineurin promoter to diagnose, prognose and treat glaucoma and related
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SNP; glaucoma; progressive ocular hyperte glaucoma related disorder; motif; repeat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (SIEE/)
(RAYM/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; optineurin; ds; ophthalmological; single nucleotide polymorphism; SNP; glaucoma; progressive ocular hypertensive disorder;
                                                                                                                               Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Raymond V,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 06-MAR-2002; 2002US-00091281
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          06-MAR-2002; 2002US-00091281.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Optineurin promoter motif, repeat element or regulatory region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (MORI/)
    3905 GACCCCGCCCACCCGACGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SI E.
RAYMOND V.
                                                                                                                                                                      regulatory
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQ ID NO 295; 159pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Morissette
                                                                                                                               BP; 3 A;
                                                              0.3%;
                                                                                                                                                                      region.
                                                                                                                             15 C; 3
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                                      0;
                                                                   Pred.
                                                                   Score 14.6;
Pred. No. 1
                                                                                                                             G; 0 T; 0 U; 0 Other;
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    3925
                                             Mismatches
                                                                .1e+03
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                                               Indels
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                                             0,
                                             Gaps
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RESULT 1795
ADD68937
ID ADD6893
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                                                     Query Match
Best Local S
Matches 17
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Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                          The invention relates to a novel compound targeted to a nucleic acid molecule encoding a B-cell associated protein (BAP), where the compound specifically hybridises with the nucleic acid and inhibits expression of the protein. The compound of the invention demonstrates cytostatic, antiinflammatory and antimicrobial activities and may be useful for inhibiting the expression of BAP in cells or tissues thus, via antisense
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 21
                                                                                                                                     therapy, preventing a hyperproliferative disorder such as cancer, particularly breast or prostate cancer, as well as a disorder characterised by altered levels of apoptosis, infection or inflammation. The current sequence is that of the PCR primer 1 of the invention which was used to amplify human B-cell associated protein DNA.
                                                                                                                                                                                                                                                                                                                                                        New antisense compound that hybridizes and inhibits a nucleic acid encoding a B-cell associated protein, useful for treating animal hadisease or condition associated with B-cell associated protein, e.c.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              B-cell associated protein; BAP; cytostatic; antiinflammatory; antimicrobial; antisense therapy; hyperproliferative; breast; prostate cancer; apoptosis; infection; inflammation; human; PCR; primer;
                                                                                                              Sequence 21
                                                                                                                                                                                                                                                                                                                Example 13; SEQ ID NO 4; 107pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2003-569148/53.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      13-DEC-2001; 2001US-00020478
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PCR primer 1 used to amplify human B-cell associated protein DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3862 CCAAGAGGCCCATCAAGCCTT 3882
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ISIS PHARM INC
                                                                    Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CCAAGCUGCCCAUCAAUGCTT 21
                         GCTGGAACCATGGCAACATCA 543
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ilarity 76.2%;
Conservative
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                                                                                                           BP; 7 A; 7 C; 4 G; 3 T; 0 U; 0 Other;
                                                     Conservative
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                                                                 0.3%;
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Pred. No. 1
                                                                   Score 14.6;
Pred. No. 1.
                                                     Mismatches
                                                                 .1e+03
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                                                                               DB 1;
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                                                    Gaps
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RESULT 1797 ACF79810/c ID ACF7981

ACF79810 standard; RNA;

21

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2419

AAATCACGTTTGCCCCAACCT 2439

0;

AAATCACATCCGCCCCAACTT 21

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RESULT 1796
                                                                                              The present sequence is that of a portion (GC content 47.6%) of the human CC CSOST gene. RNA derived from this DNA sequence is a target for a small content ferring RNA (siRNA) of the invention (see ACF79810) designed to inhibit expression of the SOST gene. The sequence was selected as a C target from its high content of AA dinucleotides and minimal homology to other known coding sequences. The SOST gene encodes sclerostin, a bone morphogenetic protein antagonist and regulator of bone matrix formation. CA pharmaceutical composition comprising the siRNA modulates SOST CC expression and modulates the ability of sclerostin to decrease conteoblastic activity. It is used for increasing bone density in a mammal and for decreasing apoptosis of bone cells (claimed). It can also be used to modulate bone resorption and augment bone mineralization, to prevent creat apoptosis of bone-related cells or loss of bone density and to treat osteoporosis, osteomyelitis, hypercalcaemia, osteopenia brought on by surgery or steroid administration, Paget's disease, osteonecrosis, bone loss due to rheumatoid arthritis, periodontal bone loss, prosthetic concerning and osteolytic metastasis
Query Match
Best Local Similarity
Matches 17; Conserv
                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (CELL-)
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27-AUG-2002; 2002US-0406171P
13-FEB-2003; 2003US-0447393P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                osteopathic;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SOST target for small interfering RNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACF79822;
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                                                                                                                                                                                                                                                                                                                                                                                                                                        Composition useful for modulating increasing bone density comprises
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Kung
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     28-FEB-2003; 2003WO-US006193
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                                                                                                                                                                                                                                                                                                                                                                                          15; Page 32; 74pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CELLTECH R & D INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LATHAM J.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       KUNG SUTHERLAND
                                                                    21 BP; 7 A; 9 C; 1 G; 4 T; 0 U; 0 Other;
      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
                   81.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Geoghegan
                                      0.3%;
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      <u>,,</u>
                     Score 14.6;
Pred. No. 1.
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      Mismatches
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                     1.1e+03
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Best Loc
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         such as osteoporosis, rheumatoid arthritis, deformation arthritis, deformation lumbar-vertebra disease, systemic lupus erythematosus, bone describated in a diabetic patient, bone density reduction in a chronic renal insufficiency, a myeloma, the Burkitt's lymphoma, a malignant lymphoma a familial bone Paget's disease, familial extendibility osteolysis disease or periodontitis. A preventative agent which is a promoter is useful for treating marble bone disease, rachitis or osteomalacia. The present sequence represents a PCR primer used in the
                                                                                                           17-AUG-2001; 2001US-0313076P
20-DEC-2001; 2001US-0344116P
01-FEB-2002; 2002US-0353750P
            New double stranded RNA oligonucleotide, useful for preparing composition for treating or preventing hepatitis C virus.
                                               WPI; 2003-268345/26.
                                                                                                                                                                              27-FEB-2003.
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                                                                                                                                                                                                                                                                                                                                                                                misc_RNA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                gene therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         HCV infection;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADD00769 standard;
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                                                                                                                                                        16-AUG-2002; 2002WO-US021843
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ds; anti-HCV;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LZ-PAIR-97 DNA-RNA hybrid.
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/label= Sticky_end
/note= "The 3' end |
the complementary s
                                                                                                                                                                                                                                                                             /note=
                                                                   Glass
                                                                                                                                                                                                                                                                                                                                 /note= "DNA-RNA hybrid due to presence of 2 2'-deoxythymidine overhangs at 3' end of each strand. Optionally the overhanging bases may be uracil."
                                                                                                                                                                                                                                                                                                    /*tag=
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                                                                   Martinez A,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                pathogenesis; virucide; vaccine;
LZ-PAIR; DNA-RNA hybrid.
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strand
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RESULT 1794
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Best Local S
Matches 17
         The invention relates to a novel isolated double stranded RNA oligonucleotide about 19 to about 25 ribonucleotides in length or its equivalent. One strand of the oligonucleotide comprises the same nucleotide sequence as a region of a hepatitis C virus (HCV) target RNA polynucleotide sequence required for hepatitis C virus infection, replication or pathogenesis in vitro or in vivo in a host cell. The oligonucleotide of the invention demonstrates virucide activity and may be useful for preparing a composition or vaccine for treating or preventing hepatitis C virus, as well as during gene therapy procedures. The current sequence is that of the anti-HCV agent LZ-PAIR DNA-RNA hybri
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             oligonucleotide about 19 to about 25 ribonucleotides in length or its equivalent. One strand of the oligonucleotide comprises the same nucleotide sequence as a region of a hepatitis C virus (HCV) target RNA polynucleotide sequence required for hepatitis C virus infection, replication or pathogenesis in vitro or in vivo in a host cell. The oligonucleotide of the invention demonstrates virucide activity and may be useful for preparing a composition or vaccine for treating or preventing hepatitis C virus, as well as during gene therapy procedures. The current sequence is that of the anti-HCV agent LZ-PAIR DNA-RNA hybrid
                                                                                                                                                                                                                                                                                                                                                           17-AUG-2001; 2001US-0313076P
20-DEC-2001; 2001US-0344116P
01-FEB-2002; 2002US-0353750P
                                                                                                                                                                                                                   New double stranded RNA oligonucleotide, useful for preparing composition for treating or preventing hepatitis C virus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   HCV infection; replication;
gene therapy; ds; anti-HCV;
                                                                                                                                                                                   Disclosure; Page 106; 173pp;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Hepatitis C virus
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; Page 103; 173pp; English
                                                                                                                                                                                                                                                                                                                             (ELIL )
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             DNA-RNA hybrid
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ADB84345
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Best Local S
Matches 17
The invention relates to an isolated or purified nucleic acid from a virus associated with multiple sclerosis and/or rheumatoid arthritis, multiple sclerosis and/or rheumatoid arthritis, multiple sclerosis of comprise pol, gag or reverse transcriptase genes (or their fragments) encoding the proteins or defined peptides (including immunodominant peptides, antigenic peptides or conserved motifs). Also included are a process for detecting a virus associated with multiple sclerosis or rheumatoid arthritis in a biological sample, a nucleic acid probe for the detection of a virus associated with multiple sclerosis or rheumatoid arthritis, an office of virus associated with multiple sclerosis or rheumatoid arthritis, and primer for the amplification by polymerisation of a nucleic acid of a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                and the determination of their relative frequencies constitutes the functional allele profile of the gene of interest in the population. method is useful for determining functional allele profiles which are useful in the treatment and diagnosis of diseases, for genetic and pharmacogenetic applications, and for evaluating the degree to which gene(s) are under selective pressure. The present sequence represents sequencing primer used in the method of the invention.
                                                                                                                                                                                           New isolated or purified nucleic acid associated with multiple sclerosis and/or rheumatoid arthritis, useful for detecting a virus associated with multiple sclerosis or rheumatoid arthritis in a biological sample.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Multiple sclerosis associated retrovirus.
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                                                                                                                                                               Example 10; Page 19; 193pp; English.
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) PARANHOS-BACCALA G.
) KOMURIAN-PRADEL F.
) JOLIVET-REYNAUD C.
                                                                                                                                                                                                                                                                                                                                  MANDRAND B.
GARSON J A.
TUKE P W.
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ADC54123/c
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Matches 17
                                                                                                                                                                                                                                                                                                                                                                                             viral material associated with multiple sclerosis or rheumatoid arthritis, a polypeptide exhibiting an inhibitory activity on the proteolytic, reverse transcriptase or ribonuclease H activity from MSRV, and an antibody directed against the MSRV-1 virus obtained by immunologically reacting a human or animal body or cells with an immunogenic agent consisting of the antigenic polypeptide defined above. The nucleic acids are useful for detecting a biological sample a virus associated with multiple sclerosis or rheumatoid arthritis, or for detecting in a biological sample, the presence of or exposure to a virus associated with multiple sclerosis or rheumatoid arthritis. The present associated with multiple sclerosis or rheumatoid arthritis. The present associated with multiple sclerosis or rheumatoid arthritis. The present associated with multiple sclerosis or rheumatoid arthritis. The present associated with multiple sclerosis or rheumatoid arthritis. The present associated with multiple sclerosis or rheumatoid arthritis. The present associated with multiple sclerosis or rheumatoid arthritis. The present associated with multiple sclerosis or rheumatoid arthritis. The present associated with multiple sclerosis or rheumatoid arthritis. The present compared to not match the SEQ ID numbers in the sequence listing.

Consequently those sequences mantioned in the claims may not be the
                                                                                                                                                                                                                                                                                                                              Sequence
ADC54123
                                                                                                                                                                                                                                                                                                                                                                             sequences the authors intended to claim.
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17; Conser
                                                                                                                                                                          CCTGAGTTCCTTCCCTAAGCC 3601
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standard;
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                                                                                                                                                                                                                               Conservative
DNA;
                                                                                                                                                                                                                                                 0.3%;
                                                                                                                                                                                                                                                                                                                              8 C; 3 G; 6 T; 0
  21
                                                                                                                                                                                                                            0
                                                                                                                                                                                                                                                    Score 14.6;
Pred. No. 1.
                                                                                                                              21
                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                                                                                                                                              U; 0 Other;
                                                                                                                                                                                                                                                    1e+03
                                                                                                                                                                                                                                                                                 B
                                                                                                                                                                                                                                                                                 1.
                                                                                                                                                                                                                                                                            Length
                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                 21;
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                                                                                                                                                                                                                               Gaps
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dermatological; immunosuppressive; antiinflammatory; cytostati osteoporosis; arthritis; lumbar-vertebra desease; systemic lupus erythematosus; bone loss disease; bone density chronic renal insufficiency; myeloma; Burkitt's lymphoma; lymp paget's disease; periodontitis; marble bone disease; rachitis;
                                                                    JP2003093099-A
                                                                                                                                    Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            18-DEC-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADC54123;
02-APR-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PCR primer P2X7-F1 SEQ ID NO:15.
                                                                                                                                                                                                                                                                                                                                                                                                                 ss; primer; osteoclast; osteopathic; antirheumatic; antiarthritic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                bone density reduction;
                                                                                                                                                                                                                                                                                                                                                                                cytostatic;
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Detecting differentiation derived from a monocyte, k a P2 X4 receptor, a P2 X5 Example 2; SEQ ID NO 15; 15pp; Japanese.

differentiation of an osteoclast from the macrophage like cell rom a monocyte, by making a parameter expression fluctuation of eceptor, a P2 X5 receptor and/or P2 X6 receptor.

26-SEP-2001; 2001JP-00292799. 26-SEP-2001; 2001JP-00292799.

WPI; 2003-572670/54.

(SUMU)

SUMITOMO SEIYAKU KK

The invention relates to a novel method for detecting differentiation of an osteoclast from the macrophage like cell derived from a monocyte. The method involves making a parameter expression fluctuation of a P2 X4 receptor, a P2 X5 receptor and/or P2 X6 receptor. The method of the invention has osteopathic, antirheumatic, antiarthritic, dermatological, immunosuppressive, antiinflammatory, and cytostatic activity. A preventative agent of the invention which is an inhibitor is useful in the treatment of disease including the abnormality of bone metabolism n of The

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The invention relates to an isolated polypeptide comprising one of 127 CC sequences (appearing as ABO1288-ABO1414) designated as NOVX, a mature CC form of NOVX, an amino acid sequence which is at least 95% identical to CC NOVX or an amino acid sequence comprising one or more conservative cc substitutions in NOVX. Also included are nucleic acids encoding NOVX CC proteins, determining the presence or amount of NOVX or NOVX DNA in a CC sample (by introducing the sample to an antibody that binds co immunospecifically to the polypeptide, and determining the presence or amount of antibody bound to the polypeptide, determining the presence of cc amount of antibody bound to the polypeptide, and termining the presence of cc arredisposition to a disease associated with altered levels of CC expression of NOVX or NOVX DNA in a first mammalian subject, identifying can agent that binds to NOVX, identifying a potential therapeutic agent cf or treatment of a pathology related to aberrant expression or aberrant CC physiological interactions of NOVX, screening for a modulator of activity of or of latency or predisposition to a pathology associated with NOVX, a creening for a modulator of activity of or of latency or predisposition to a pathology associated with NOVX, a creening pathologies, diseases, conditions or disorders associated with the colories and in diagnosing and colories associated with NOVX or NOVX antibody. The NOVX mucleic acids and polypeptides are useful as a marker for cell or tissue type, and in diagnosing and the colories associated with the nova mucleic acids and polypeptides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20-SEP-2001;
25-SEP-2001;
25-SEP-2001;
26-SEP-2001;
15-FEB-2002;
28-FEB-2002;
20-MAR-2002;
20-MAR-2002;
10-MAY-2002;
10-MAY-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CURA-) CURAGEN L....

Zhong M, Li L, Gorman L, Spytek KA, Kekuda R, Taupier KJ, Roherson DW, Vernet CAM, Catterton E, Miller CE, Shenoy SG, Patturajan M, Pena CEA, Tchernev VT, Padigaru M, Gusev VY; Malyankar UM, Burgess CE, Gerlach VL, Casman SJ, Rieger DK; Grosse WM, Smithson G, Peyman JA, Starling G, Rothenberg ME; Grosse WM, Smithson G, Crabtree J, Rastelli L, Voss EZ; Grosse WM, Smithson G, Crabtree J, Rastelli L, Voss EZ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          17-SEP-2001;
19-SEP-2001;
20-SEP-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New polypeptides and polynucleotides having properties related to stimulation of biochemical or physiological responses in a cell or tissue, useful for diagnosing or preventing e.g. atherosclerosis,
                                                                                                                                                                                                                                                                                                                                                                                                                           Example C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                              hypertension, prostate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2003-313246/30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     12-SEP-2001;
17-SEP-2001;
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10-SEP-2001;
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Smithson G, Peyman
WJ, Shimkets RA, Crab
                                                                                                                                                                                                                                                                                                                                                                                                                         Page 585; 849pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2001US-0318130P

2001US-031876SP

2001US-0322781P

2001US-032281SP

2001US-032353P

2001US-032353P

2001US-032353P

2001US-0324959P

2001US-0324959P

2001US-032593P

2002US-035730SP

2002US-0360773P

2002US-036773P

2002US-036773P
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including cardiomyopathy,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cancer.
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The present invention relates to a method for determining a functional allele profile of a gene in a population. The method comprises identifying the nucleotide sequence of a gene of interest out of genomic DNA from each of a population of individuals identified as having a family history which indicates inheritance of functional alleles of the gene of interest, and rank ordering the frequency of occurrence of each haplotype, where the identity of the alleles containing each haplotype

of genomic

Example 5;

Page

14;

28pp;

English.

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999999999998<del>8</del>8
RESULT 1790
ADA45394/c
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                   12-FEB-1996;
12-FEB-1997;
04-AUG-1997;
22-MAY-1998;
04-AUG-1998;
14-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                congenital heart defects, prostate cancer, diabetes, metabolic disorders, neeplasm, graft versus host disease, AIDS, bronchial asthma, Crohn's disease, multiple sclerosis, infectious diseases, anorexia, cancerassociated cachexia, neurodegenerative disorders (e.g. Alzheimer's disease or parkinson's disease), immune disorders haematopoietic disorders, dyslipidaemias, and wasting disorders associated with chronic diseases. These may also be used to screen for molecules which inhibit or enhance NOVX activity or function, and for detecting specific cell types. These may also be used in chromosome mapping, gene therapy, tissue typing, and in forcensic biology. The present sequence is a reverse transcriptase (RT)-PCR probe used to assess the tissue specific expression of mRNA encoding a NOVX protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Functional allele profile; genetic inheritance; haplotype; population; disease; pharmacogenetic application; selective pressure; human; MSH2; MLH1; BRCA1; BRCA2; FTEN; BAP1; BARD1; p53; sequencing; primer; ss.
                                                                                                                                        identifying the the individuals
                                                                                                                                                              Determining
                                                                                                                                                                                          WPI; 2003-576875/54.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human BRAC2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 21
                                                                                                                                                                                                                   Murphy PD
                                                                                                                                                                                                                                                                                                                                                             08-AUG-2001; 2001US-00923327
                                                                                                                                                                                                                                                                                                                                                                                      22-MAY-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADA45394;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADA45394 standard; DNA; 21
                                                                                                                                                                                                                                             (ONCO-) ONCORMED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4032 CCGGAGGAGGGGCCACCAGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          l Similarity
17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CAGGAGGATGACCCACCAGGG
                                                                                                                                                    the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ВP;
                                                                                                                                                                                                                                                                   97US-00905772.
98US-00084471.
98US-00129134.
2000US-00524794.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                       functional allele profile of a gene in a population by he nucleotide sequence of a gene of genomic DNA from each of with a family history of functional alleles of the gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                      96US-00598591
97US-00798691
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               sequencing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            в
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Pred.
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No. 1.1e+03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0
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15-FEB-2002; 2002US-0357303P.
28-FEB-2002; 2002US-0360973P.
20-MAR-2002; 2002US-0366131P.
25-MAR-2002; 2002US-0367753P.
02-APR-2002; 2002US-0369779P.
10-MAY-2002; 2002US-0391864P.
17-MAY-2002; 2002US-0381664P.
                                                                                                                                                                                                                                                                                                                                                                                                                                      09-SEP-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              congenital heart defect; prostate cancer; diabetes; metabolic disorneoplasm; graft versus host disease; AIDS; bronchial asthma; probe; Crohn's disease; multiple sclerosis; infectious disease; anorexia; cancer-associated cachexia; neurodegenerative disorder; RT-PCR; Alzheimer's disease; Parkinson's disease; immune disorder; haematopoietic disorder; dyslipidaemia; wasting disorder; gene there
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACD06531 standard;
        Larochelle WJ, Shin
Boldog FL, Edinger
                                                                                                                                                                                                                                                                                       25-SEP-2001;
25-SEP-2001;
                                Grosse WM,
                                           Malyankar UM,
                                                   Patturajan M,
                                                                                                                                                                                                                                                                                                                20-SEP-2001;
                                                                    Anderson DW,
                                                                                                                                                                                                                                                                                                                                                                                      0-SEP-2001;
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                                                                                                       CURAGEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  transcriptase
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      Li L, Gorman L, Spytek KA, Kekuda R, Taupier RJ
DW, Vernet CAM, Catterton E, Miller CE, Shenoy S
n M, Pena CEA, Tchernev VT, Padigaru M, Gusev VY
UM, Burgess CE, Gerlach VL, Casman SJ, Rieger I
, Smithson G, Peyman JA, Starling G, Rothenberg
e WJ, Shimkets RA, Crabtree J, Rastelli L, Vose
e WJ, Shimkets RA, Crabtree J, Rastelli L, Vose
g Edinger SR, Millet I, Macdougall JR, Ellerman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PCR; NOVX;
                                                                                                                                                                                                                                                                                      2001US-0322781P.
2001US-0322816P.
2001US-0323519P.
2001US-0323631P.
2001US-032363P.
2001US-032363P.
2001US-0324969P.
2001US-0325091P.
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                                                                                                       CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0.3%;
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C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cardiomyopathy; atherosclerosis; hypertension
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Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
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       Rothenberg ME;
lli L, Voss EZ;
R, Ellerman K;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                              Taupier RJ;
                                         Shenoy SG;
Gusev VY;
Rieger DK;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               gene therapy;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            disorder;
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New polypeptides and polynucleotides having stimulation of biochemical or physiological tissue, useful for diagnosing or preventing
Example C; Page 563; 849pp; English
                                                                                                                                                                              WPI;
                                                  hypertension, prostate cancer.
                                                                                                                                                                              2003-313246/30
                                                                       properties related to
responses in a cell o
e.g. atherosclerosis,
                                                                                                      cell or
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cc immunospecifically to the polypeptide, and determining the presence or cc amount of antibody bound to the polypeptide), determining the presence of cor predisposition to a disease associated with altered levels of expression of NOVX or NOVX DNA in a first mammalian subject, identifying can agent that binds to NOVX, identifying a potential therapeutic agent cfor treatment of a pathology related to aberrant expression or aberrant comprising the vector comprising or predisposition to a pathology associated with NOVX, a core of latency or predisposition to a pathology associated with NOVX, a core of or of latency or predisposition to a pathology associated with NOVX, a core of or of latency or predisposition to a pathology associated with NOVX, and an anati-NOVX antibody. The NOVX nucleic acids and polypeptides covering pathologies, diseases, conditions or disorders associated with COVX sequences, including cardiomypathy, atherosciarcosis, hypertension, congenital heart defects, prostate cancer, diabetes, metabolic disorders, congenital heart defects, prostate cancer, diabetes, metabolic disorders, consecutated cachexia, neurodegenerative disorders (e.g. Alzheimer's associated cachexia, neurodegenerative disorders, haematopoietic consecutated with chronic disorders, haematopoietic disorders descripted with chronic disorders. disorders, dyslipidaemias, and wasting disorders associated with chronic diseases. These may also be used to screen for molecules which inhibit or enhance NOVX activity or function, and for detecting specific cell types. NOVX or an amino acid sequence comprising one or more conservative substitutions in NOVX. Also included are mucleic acids encoding NOVX proteins, determining the presence or amount of NOVX or NOVX DNA in sample (by introducing the sample to an antibody that binds These may also be used in chromosome mapping, gene therapy, tissue typing, and in forensic biology. The present sequence is a reverse transcriptase (RT)-PCR probe used to assess the tissue specific expression of mRNA encoding a NOVX protein form of NOVX, tion relates to an isolated polypeptide comprising one of 127 (appearing as ABO1288-ABO1414) designated as NOVX, a mature OVX, an amino acid sequence which is at least 95% identical to a

Sequence 21 BP; 1 A; 8 C; σ G; 6 T; 0 U; 0 Other;

Query Match
Best Local Similarity
Matches 17; Conserv Conservative 0.3%; 0 Score 14.6; Pred. No. 1 Mismatches .1e+03 DB 1: 4. Length Indels 21; 0 Gaps 0

RESULT 1789 ACD06555/c 뮍 ACD06555 standard; DNA; 21 21

ACD06555;

probe

for human NOV36g set5.

(first entry)

S

CCGGAGGAGGGGCCACCAGGG 4052

Human; ss; PCR; NOVX; cardiomyopathy; atherosclerosis; hypertension; congenital heart defect; prostate cancer; diabetes; metabolic disorder; neoplasm; graft versus host disease; AIDS; bronchial asthma; probe; Crohn's disease; multiple sclerosis; infectious disease; anorexia; cancer-associated cachexia; neurodegenerative disorder; RT-PCR; Alzheimer's disease; Parkinson's disease; immune disorder; haematopoietic disorder; dyslipidaemia; wasting disorder; gene therapy; reverse transcriptase PCR.

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RESULT 1787
ACD06798/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CC expression of NOVX or NOVX DNA in a first mammalian subject, identifying CC an agent that binds to NOVX, identifying a potential therapeutic agent CC for treatment of a pathology related to aberrant expression or aberrant CC physiological interactions of NOVX, screening for a modulator of activity CC of or of latency or predisposition to a pathology associated with NOVX, a ccorrector comprising NOVX DNA, a cell comprising the vector (used to produce CC NOVX) and an anti-NOVX antibody. The NOVX nucleic acids and polypeptides CC are useful as a marker for cell or tissue type, and in diagnosing and CC treating pathologies, diseases, conditions or disorders associated with CC NOVX sequences, including cardiomyopathy, atherosclerosis, hypertension, CC congenital heart defects, prostate cancer, diabetes, metabolic disorders, CC disease, multiple sclerosis, infectious diseases, anorexia, cancerses of conditions or disorders, diseases, multiple sclerosis, infectious diseases, anorexia, cancerses conditions or disorders, diseases, these may also be used to screen for molecules which inhibit or cenhance NoVX activity or function, and for detecting specific cell types. CC transcriptase (RT)-PCR probe used to assess the tissue specific cell types cranscriptase (RT)-PCR probe used to assess the tissue specific
07-SEP-2001;
07-SEP-2001;
10-SEP-2001;
12-SEP-2001;
17-SEP-2001;
                                                                                                                                                                                                                                                                                    Human; ss; PCR; NOVX; cardiomyopathy; atherosclerosis; hypertension; congenital heart defect; prostate cancer; diabetes; metabolic disord neoplasm; graft versus host disease; AIDS; bronchial asthma; probe; Crohn's disease; multiple sclerosis; infectious disease; anorexia; cancer-associated cachexia; neurodegenerative disorder; RT-PCR; Alzheimer's disease; Parkinson's disease; immune disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NOVX or an amino acid sequence comprising one or more conservative substitutions in NOVX. Also included are nucleic acids encoding NOVX proteins, determining the presence or amount of NOVX or NOVX DNA in a sample (by introducing the sample to an antibody that binds immunospecifically to the polypeptide, and determining the presence or amount of antibody bound to the polypeptide), determining the presence or predisposition to a disease associated with altered levels of
                                                                                                                                                                                 WO2003023008-A2
                                                                                                                                                                                                                                                                        haematopoietic
                                                                                                                                                                                                                                                                                                                                                                                                                  RT-PCR
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17; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                probe
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; 2001US-0318120P.
; 2001US-0318130P.
; 2001US-0318430P.
; 2001US-0318765P.
; 2001US-0322781P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                           2002WO-US028596
                                                                                                                                                                                                                                                                                                                                                                                                                for human NOV36r set
                                                                                                                                                                                                                                                                      disorder; dyslipidaemia;
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15-FEB-2002;
28-FEB-2002;
20-MAR-2002;
25-MAR-2002;
02-APR-2002;
10-MAY-2002;
17-MAY-2002;
17-MAY-2002;
28-MAY-2002;
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19-SEP-2001;
20-SEP-2001;
20-SEP-2001;
25-SEP-2001;
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26-SEP-2001;
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2002US-0367153P.
2002US-0367759P.
2002US-0369479P.
2002US-03981654P.
2002US-0381654P.
2002US-0381651P.
2002US-0390155P.
2002US-0390155P.
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(CURA-) CURAGEN CORP.

Boldog FL, Chapoval A Zhong M, Li L, Gorman L, Spytek KA, Kekuda R, Taupier RJ;
Anderson DW, Vernet CAM, Catterton E, Miller CE, Shenoy SG;
Patturajan M, Pena CEA, Tchernev VT, Padigaru M, Gusev VY;
Malyankar UM, Burgess CE, Gerlach VL, Casman SJ, Rieger DK;
Grosse WM, Smithson G, Peyman JA, Starling G, Rothenberg ME;
Larochelle WJ, Shimkets RA, Crabtree J, Rastelli L, Voss EZ;
Boldog FL, Edinger SR, Millet I, Macdougall JR, Ellerman K;

WPI; 2003-313246/30.

New polypeptides and polynucleotides having properties related to stimulation of biochemical or physiological responses in a cell c tissue, useful for diagnosing or preventing e.g. atherosclerosis, hypertension, prostate cancer.

Example 849pp; English.

The invention relates to an isolated polypeptide comprising one of 127 CC sequences (appearing as AB01288-AB01414) designated as NOVX, a mature CC form of NOVX, an amino acid sequence which is at least 95% identical to CC NOVX or an amino acid sequence comprising one or more conservative groteins, determining the presence or amount of NOVX DNA in a CC sample (by introducing the sample to an antibody that binds corrected from the polypeptide, and determining the presence or amount of antibody bound to the polypeptide, and determining the presence of cor predisposition to a disease associated with altered levels of cor predisposition to a disease associated with altered levels of cor predisposition to a disease associated with altered levels of cor predisposition to a pathology related to aberrant expression or aberrant cc physiological interactions of NOVX, screening for a modulator of activity of or of latency or predisposition to a pathology associated with NOVX, a ccl comprising NOVX DNA, a cell comprising the vector (used to produce NOVX) and an anti-NOVX antibody. The NOVX mucleic acids and polypeptides are useful as a marker for cell or tissue type, and in diagnosing and creating pathologies, diseases, conditions or disorders associated with NOVX, a congenital heart defects, prostate cancer, diabetes, metabolic disorders, congenital asthma, Crohn's cc associated cachexia, neurodegenerative disorders (e.g. Alzheimer's disease, validations or parkinson's disease, immune disorders, haematopoietic consisted with chronic disease or parkinson's disease, immune disorders, haematopoietic consisted with other parkinson's disease, immune disorders, haematopoietic consisted with chronic diseases and wasting disorders, haematopoietic disorders, dyslipidaemias, and wasting disorders associated with chronic diseases. These may also be used to screen for molecules which inhibit or enhance NOVX activity or function, and for detecting specific cell types. These may also be used in chromosome mapping, gene therapy, tissue typing, and in forensic biology. The present sequence is a reverse transcriptase expression of and in forensic biology. The present sequence is a reventuate (RT)-PCR probe used to assess the tissue specific

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The invention relates to an isolated polypeptide comprising one of 127 CC sequences (appearing as AB01288-AB01414) designated as NOVX, a mature CC form of NOVX, an amino acid sequence which is at least 95% identical to CC NOVX or an amino acid sequence comprising one or more conservative cC substitutions in NOVX. Also included are nucleic acids encoding NOVX CC proteins, determining the presence or amount of NOVX or NOVX DNA in a CC sample (by introducing the sample to an antibody that binds or amount of NOVX or NOVX DNA in a first mammalian subject, identifying corrections of NOVX or NOVX DNA in a first mammalian subject, identifying an agent that binds to NOVX, identifying a potential therapeutic agent CC an agent that binds to NOVX, identifying a potential therapeutic agent CC private of attency or predisposition to a pathology related to aberrant expression or aberrant cC physiological interactions of NOVX, screening for a modulator of activity of or of latency or predisposition to a pathology associated with NOVX, a vector comprising NOVX DNA, a cell comprising the vector (used to produce CC NOVX) and an anti-NOVX antibody. The NOVX nucleic acids and polypeptides are useful as a marker for cell or tissue type, and in diagnosing and CC treating pathologies, diseases, conditions or disorders associated with NOVX, a congenital heart defects, prostate cancer, diabetes, metabolic disorders, disease, Nulliple sclerosis, infectious diseases, anceraia, cancer-cancer, diseases, disease, disease, and wasting disorders, haematopoietic conspanies, prostate cancer, disperse which inhibit or enhance of the constant of the constan
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Matches 17
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17-MAY-2002; 2002US-0381672P.
28-MAY-2002; 2002US-0383651P.
29-MAY-2002; 2002US-0384012P.
19-JUN-2002; 2002US-0390155P.
06-SEP-2002; 2002US-00390155.
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Patturajan M,
Malyankar UM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New polypeptides and polynucleotides having properties related to stimulation of biochemical or physiological responses in a cell or tissue, useful for diagnosing or preventing e.g. atherosclerosis,
                                                                                                                                                                                                             These may also be used in chromosome mapping, gene therapy, tissue typing, and in forensic biology. The present sequence is a reverse transcriptase (RT)-PCR probe used to assess the tissue specific expression of mRNA encoding a NOVX protein
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Larochelle WJ, Shim
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21
                                                                                                          Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Page 521; 849pp; English.
                                                                                                                                                                  BP;
                                                                                 Conservative
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RESULT 1786 ACD06741/c

The invention relates to an isolated polypeptide comprising one sequences (appearing as ABO1288-ABO1414) designated as NOVX, a m form of NOVX, an amino acid sequence which is at least 95% ident

identical to mature

of 127

New polypeptides and polynucleotides having stimulation of biochemical or physiological tissue, useful for diagnosing or preventing

properties related to responses in a cell or e.g. atherosclerosis,

prostate cancer. 722; 849pp;

Page

English

2003-313246/30.

Grosse WM, Smillsch Larochelle WJ, Shimk Tarochelle WJ, Bdinger S

Malyankar UM, Patturajan Anderson

Li L, Gorman L, Spytek KA, Kekuda R, Taupier RJ;
W, Vernet CAM, Catterton E, Miller CB, Shenoy SG;
M, Pena CEA, Tchernev VT, Padigaru M, Gusev VY;
UM, Burgess CE, Gerlach VL, Casman SJ, Rieger DK;
Smithson G, Peyman JA, Starling G, Rothenberg ME,
WJ, Shimkets RA, Crabtree J, Rastelli L, Voss EZ;
Edinger SR, Millet I, Macdougall JR, Ellerman K;

Zhong

Z

DW,

(CURA-)

CURAGEN CORP.

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19-SEP-2001;
20-SEP-2001;
20-SEP-2001;
25-SEP-2001;
25-SEP-2001;
26-SEP-2001;
15-FEB-2002;
20-MAR-2002;
20-MAR-2002;
17-MAY-2002;
17-MAY-2002;
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12-SEP-2001;
17-SEP-2001;
17-SEP-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; ss; PCR; NOVX; cardiomyopathy; atherosclerosis; hypertension; congenital heart defect; prostate cancer; diabetes; metabolic disorder; neoplasm; graft versus host disease; AIDS; bronchial asthma; probe; Crohn's disease; multiple sclerosis; infectious disease; anorexia; cancer-associated cachexia; neurodegenerative disorder; RT-PCR; Alzheimer's disease; Parkinson's disease; immune disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          haematopoietic disorder; dyslipidaemia; reverse transcriptase PCR.
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2001US-0318130P

2001US-0318430P

2001US-0318765P

2001US-0322816P

2001US-0322816P

2001US-0323631P

2001US-0323631P

2001US-0323631P

2001US-0323631P

2001US-0324969P

2001US-0324969P

2001US-0324990P

2002US-0357939P

2002US-0357339

2002US-0357351P

2002US-036131P

2002US-036131P

2002US-0381651P

2002US-0381651P

2002US-0381651P

2002US-0381651P

2002US-0390155P

2002US-0390155P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DNA;
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CC The invention relates to an isolated polypeptide comprising one of 127 CC sequences (appearing as ABO1288-ABO1414) designated as NOVX, a mature form of NOVX, an amino acid sequence which is at least 95% identical to CC NOVX or an amino acid sequence which is at least 95% identical to CC Substitutions in NOVX. Also included are nuclei acids encoding NOVX CC proteins, determining the presence or amount of NOVX or NOVX DNA in a CC sample (by introducing the sample to an antibody that binds CC immunospecifically to the polypeptide, and determining the presence or amount of antibody bound to the polypeptide, and determining the presence of CC amount of antibody bound to the polypeptide, and determining the presence of CC or predisposition to a disease associated with altered levels of CC expression of NOVX or NOVX DNA in a first mammalian subject, identifying an agent that binds to NOVX, identifying a potential therapeutic agent CC for treatment of a pathology related to aberrant expression or aberrant CC physiological interactions of NOVX, screening for a modulator of activity of or of latency or predisposition to a pathology associated with NOVX, a vector comprising NOVX DNA, a cell comprising the vector (used to produce
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20-SEP-2001
25-SEP-2001
25-SEP-2001
26-SEP-2001
15-FEB-2002
28-FEB-2002
28-FEB-2002
25-MAR-2002
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17-MAY-2002
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28-MAY-2002
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stimmulation of biochemical or physiological responses in a cell
tissue, useful for diagnosing or preventing e.g. atherosclerosis
hypertension, prostate cancer.
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2001US-0318430P
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2001US-0323519P
2001US-0323631P
2001US-03236369
2001US-0324969P
2001US-0324969P
2002US-0357903P
2002US-0357903P
2002US-0367739P
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2002US-03894763P
2002US-03894799
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PAR RAPER RA
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ACD06477/c
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Best Local
07-SEP-2001
10-SEP-2001
11-SEP-2001
17-SEP-2001
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17-SEP-2001
19-SEP-2001
20-SEP-2001
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02-APR-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cancer-associated cachexia; neurodegenerative disorder; RT
Alzheimer's disease; Parkinson's disease; immune disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RT-PCR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    06-AUG-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACD06477;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4032 CCGGAGGAGGGGCCACCAGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                probe
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           standard;
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  2001US-0318130P.
2001US-0318130P.
2001US-0318430P.
2001US-0318765P.
2001US-0322781P.
2001US-0322816P.
2001US-0323519P.
2001US-0323631P.
2001US-0323636P.
2001US-0324969P.
2001US-0357303P.
2002US-0357303P.
2002US-0360973P.
2002US-0367733P.
2002US-0367733P.
2002US-0367733P.
2002US-0367733P.
2002US-0369779P.
2002US-0369779P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BP; 1 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2002WO-US028596
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                for human NOV36s set
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8 C; 6 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           21
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Pred. No. 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ċ,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    disorder; gene therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      disorder;
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RESULT 17
ACDO 570/
ID 06570/
ACD 0650/
ACD 060/
AC ACD 0
AC ACC 0
AC
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Best Local S
Matches 17
                                                                                                                                                                                                                                                  10-SEP-2001;
17-SEP-2001;
17-SEP-2001;
17-SEP-2001;
19-SEP-2001;
20-SEP-2001;
25-SEP-2001;
25-SEP-2001;
25-SEP-2001;
25-SEP-2002;
25-MAR-2002;
26-MAR-2002;
26-MAR-2002;
10-MAY-2002;
17-MAY-2002;
17-MAY-2002;
Anderson DW,
Patturajan M,
Malyankar UM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; ss; PCR; NOVX; cardiomyopathy; atherosclerosis; hypertension; congenital heart defect; prostate cancer; diabetes; metabolic disord neoplasm; graft versus host disease; AIDS; bronchial asthma; probe; Crohn's disease; multiple sclerosis; infectious disease; anorexia; cancer-associated cachexia; neurodegenerative disorder; RT-PCR; Alzheimer's disease; Parkinson's disease; immune disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    typing, and in fore transcriptase (RT)-expression of mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACD06570 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         07-SEP-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            09-SEP-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Alzheimer's disease; Parkinson's disease; immune disorder;
haematopoietic disorder; dyslipidaemia; wasting disorder; gene therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 06-AUG-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4032 CCGGAGGAGGGCCACCAGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               h 0.3%;
Similarity 81.0%;
17; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               transcriptase
                                                                                                                    CURAGEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CAGGAGGATGACCCACCAGGG 1
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  Li L, Gorman L, Spytek KA,
DW, Vernet CAM, Catterton E,
n M, Pena CEA, Tchernev VT,
UM, Burgess CE, Gerlach VL,
                                                                                                                                                        2001US-0318430P
2001US-0318765P
2001US-03227816P
2001US-0323816P
2001US-0323631P
2001US-0323631P
2001US-0323639P
2001US-0324990P
2001US-0324990P
2002US-0357303P
2002US-0366131P
2002US-0366131P
2002US-036973P
2002US-036973P
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2002US-038973P
2002US-0389753P
2002US-0389753P
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2002US-0389753P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    for human NOV36h set 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2002WO-US028596
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2001US-0318130P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ą
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            æ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C; 6 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 14.6;
Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4052
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                          , in
  Kekuda R, T
Miller CE,
Padigaru M,
Casman SJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         .1e+03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sequence is
the tissue sp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                       Taupier RJ;
                       Shenoy SG;
Gusev VY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          is a reverse specific
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
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RESULT 1784 ACD06633/c

ACD06633 standard;

DNA;

21

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21

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CCGGAGGAGGGCCACCAGGG 4052 CAGGAGGATGACCCACCAGGG

Query Match Best Local S Matches 17

Similarity

0.3%;

Conservative

0 Score Pred.

Mismatches

Indels

<u>.</u>

No. 1

.1e+03 DB 1;

Length

Sequence 21

BP; 1 A; 8 C; 6 G;

6 T; 0 U; 0 Other;

The same strapes

ZZZZZZZZZZZZZ

probe

for human NOV36k set

.

06-AUG-2003

(first

entry)

Human; ss; PCR; NOVX; cardiomyopathy; atherosclerosis; hypertension; congenital heart defect; prostate cancer; diabetes; metabolic disord neoplasm; graft versus host disease; AIDS; bronchial asthma; probe; Crohn's disease; multiple sclerosis; infectious disease; anorexia;

disorder;

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The invention relates to an isolated polypeptide comprising one of 127 cc sequences (appearing as ABO1288-ABO1414) designated as NOVX, a mature cf form of NOVX, an amino acid sequence which is at least 95% identical to the form of NOVX and amino acid sequence which is at least 95% identical to composite the presence or amount of NOVX DNA in a substitutions in NOVX. Also included are nucleic acids encoding NOVX cc proteins, determining the presence or amount of NOVX DNA in a cc sample (by introducing the sample to an antibody that binds core camount of antibody bound to the polypeptide, and determining the presence or cc amount of NOVX or NOVX DNA in a first mammalian subject, identifying an agent that binds to NOVX, identifying a potential subject, identifying can agent that binds to NOVX, identifying a potential therapeutic agent for treatment of a pathology related to aberrant expression or aberrant cc physiological interactions of NOVX, screening for a modulator of activity co for of latency or predisposition to a pathology associated with NOVX, a creening for a modulator of activity co for of latency or predisposition to a pathology associated with NOVX, and an anti-NOVX antibody. The NOVX nucleic acids and polypeptides care useful as a marker for cell or tissue type, and in diagnosing and complaint pathologies, diseases, conditions or disorders associated with NOVX sequences, including cardiomyopathy, atherosclerosis, hypertension, compenital heart defects, prostate cancer, diabetes, metabolic disorders, cell sease, AIDS, bronchial asthma, Crohn's cellsease or parkinson's disease, AIDS, bronchial asthma, Crohn's cellsease, multiple sclerosis, infectious diseases, anorexia, cancer-cellsease, and seases. These may also be used to screen for molecules which chronic cellsease which inhibit or enhance NOVX activity or function, and for detecting specific cell types. Cenhance with the season of manya encoders and content of the center of the c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Grosse WM,
Larochelle W
Boldog FL,
Chapoval A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New polypeptides and polynucleotides having stimulation of biochemical or physiological tissue, useful for diagnosing or preventing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          hypertension, prostate cancer.
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Edinger
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Page 596; 849pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Smithson G,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Peyman JA, Starling G, Ro
RA, Crabtree J, Rastelli
Millet I, Macdougall JR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                properties related to responses in a cell or e.g. atherosclerosis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Rothenberg
li L, Voss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 L, Voss
Ellerman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              KEZ;
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RESULT 1782
ACD06768/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention relates to an isolated polypeptide comprising one of 127 CC sequences (appearing as ABOL288-ABOL414) designated as NOVX, a mature CC form of NOVX, an amino acid sequence which is at least 95% identical to CC NOVX or an amino acid sequence comprising one or more conservative CC substitutions in NOVX. Also included are nucleic acids encoding NOVX CC proteins, determining the presence or amount of NOVX or NOVX DNA in a CC sample (by introducing the sample to an antibody that binds CC immunospecifically to the polypeptide, and determining the presence or amount of entibody bound to the polypeptide, determining the presence of CC expression of NOVX or NOVX DNA in a first mammalian subject, identifying can agent that binds to NOVX, identifying a potential therapeutic agent for treatment of a pathology related to aberrant expression or aberrant cyphysiological interactions of NOVX, screening for a modulator of activity of or of latency or predisposition to a pathology associated with NOVX, a creeting pathologies, diseases, conditions or disorders associated with NOVX and an anti-NOVX antibody. The NOVX nucleic acids and polypeptides are useful as a marker for cell or tissue type, and in diagnosing and congenital heart defects, prostate cancer, diabetes, metabolic disorders, congenital heart defects, prostate cancer, diabetes, metabolic disorders, associated cachexia, neurodegenerative disorders (e.g. Alzheimer's condisease or Parkinson's disease, infectious diseases, hardwarders and wasting disorders, haematopoietic condisease or parkinson's disease, infectious diseases, hardwarders and with chronic disorders, haematopoietic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local S
Matches 17
                                                                                                                                                                                                                                                         Human; ss; PCR; NOVX; cardiomyopathy; atherosclerosis; hypertension; congenital heart defect; prostate cancer; diabetes; metabolic disorder; neoplasm; graft versus host disease; AIDS; bronchial asthma; probe; Crohn's disease; multiple solerosis; infectious disease; anorexia; cancer-associated cachexia; neurodegenerative disorder; RT-PCR;
                                                                                                                                                                                          Alzheimer's disease; Parkinson's disease; immune disorder; RT-PCR; haematopoietic disorder; dyslipidaemia; wasting disorder; gene therapy; reverse transcriptase PCR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                These may also be used in chromosome mapping, gene therapy, tissue typing, and in forensic biology. The present sequence is a reverse transcriptase (RT)-PCR probe used to assess the tissue specific
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             disorders, dyslipidaemias, and wasting disorders associated with chronic diseases. These may also be used to screen for molecules which inhibit on enhance NOVX activity or function, and for detecting specific cell types
07-SEP-2001; 2001US-0318120P
                                         09-SEP-2002; 2002WO-US028596.
                                                                                                                                                                                                                                                                                                                                                                                       RT-PCR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACD06768 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             expression of mRNA encoding a NOVX protein
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                                                                                                                                                                                                                                                                                                                                                                                     probe
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                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
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Pred. No. 1
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19-SEP-2001
20-SEP-2001
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25-SEP-2001
25-SEP-2001
25-SEP-2001
15-FEB-2002
20-MAR-2002
20-MAR-2002
10-MAY-2002
17-MAY-2002
17-MAY-2002
                                                                                                                                                                                                                                                         07-SEP-2001;
'10'SEP-2001;
12-SEP-2001;
17-SEP-2001;
17-SEP-2001;
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                                                                                                                                                                                (CURA-)
                                                                                                                                                                                 CURAGEN CORP
                                                                                                                                                                                       2002US-0360973P.
2002US-0367151P.
2002US-0367753P.
2002US-0369479P.
2002US-03181664P.
2002US-0381672P.
2002US-0381651P.
2002US-0390155P.
2002US-0390155P.
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Zhong M, Anderson Boldog FL, Patturajan M, Malyankar UM, Jarochelle WJ Li L, Gorman L, Spytek KA, Kekuda R, Taupler RJ;
1 DW, Vernet CAM, Cattercon E, Miller CE, Shenoy SG;
an M, Pena CBA, Tchernev VT, Padigaru M, Gusev VY;
an M, Burgess CE, Gerlach VL, Casman SJ, Rieger DK;
M, Smithson G, Peyman JA, Starling G, Rothenberg ME;
le WJ, Shimkete RA, Crabtree J, Rastelli L, Voss EZ;
le WJ, Shimkete RA, Crabtree J, Rastelli L, Voss EZ;
Le Edinger SR, Millet I, Macdougall JR, Ellerman K;

WPI; 2003-313246/30.

nypertension, prostate cancer. New polypeptides and polynucleotides having properties related to stimulation of biochemical or physiological responses in a cell or tissue, useful for diagnosing or preventing e.g. atherosclerosis,

Example C; Page 735; 849pp; English.

The invention relates to an isolated polypeptide comprising one of 127 cc form of NOVX, an amino acid sequence which is at least 95% identical to CC form of NOVX, an amino acid sequence comprising one or more conservative comprising to a mature cc substitutions in NOVX. Also included are nucleic acids encoding NOVX CC proteins, determining the presence or amount of NOVX DNA in a CC sample (by introducing the sample to an antibody that binds correction to a disease associated with altered levels of cc amount of antibody bound to the polypeptide, and determining the presence or amount of antibody bound to the polypeptide, and determining the presence of cc amount of antibody bound to the polypeptide, and determining the presence of cc amount of antibody bound to the polypeptide, and determining the presence of cc are disposition to a disease associated with altered levels of cc an agent that binds to NOVX DNA in a first mammalian subject, identifying conformations of NOVX prelated to aberrant expression or aberrant compression or aberrant comprising NOVX DNA, a cell comprising for a modulator of activity of or of latency or predisposition to a pathology associated with NOVX, a creening for a modulator of activity of or of latency or predisposition to a pathology associated with NOVX, a creening pathologies, diseases, conditions or disorders associated with Cc congenital heart defects, prostate cancer, diabetes, metabolic disorders, congenital heart defects, prostate cancer, diabetes, metabolic disorders, congenital heart defects, prostate cancer, diabetes, metabolic disorders, congenital exclavation, and an antivolation of activity of diseases. These may also be used to screen for molecules which inhibit or chance may also be used to screen for molecules which inhibit or chance may also be used to screen for molecules which inhibit or constant and contexts. chromosome mapping,

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RESULT 1780
ABZ59030
ID ABZ5903
XX ABZ5903
XX ABZ5903
XX Prunasi
KW Prunasi
YX Prunus
PN W020030
PN W020030
PN W020030
PN W020031
PN W020031
PN W020031
PN W020031
PN W020031
PN W020031
PN WPI; 21
PN New MPI; 21
PN New MPI; 21
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PT Exhibit
PN WPI; 21
PN WPI; 2
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Best Local S
Matches 17
                                                                                       Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                The invention relates to an isolated promoter that is capable of driving transcription in a vascular tissue-preferred manner, and that is natively associated with the DNA coding for Prunus serotina prunasin hydrolase. The vascular tissue preferred promoters are useful in regulating gene expression in plants to exhibit specific phenotypic traits, such as increased resistance to abiotic stress (e.g. drought, temperature, salinity, ozone, and toxins such as pesticides and herbicides), or to biotic stress such as attacks by pathogens including insects, viruses, bacteria, fungi or nematodes. The present sequence represents a PCR primer specific for the P. serotina prunasin hydrolase variation promoter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New nucleic acid molecule for regulating gene expression in plexhibit specific phenotypic traits, e.g. increased resistance temperature, toxins or attacks by pathogens including insects,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     P. serotina
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                                                                                                                                                                                           Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    13-JUL-2001; 2001US-0305362P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ABZ59030 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 1;
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                                ATGGCTAGGCTGAGAGCAGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Page 38;
                                                                                                                                                                                      B₽;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ٤.
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                                                                                            Conservative
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Pred. No. 1
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21
                                            4771
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                                                                                                                1.1e+03;
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                                                                                                                                           BB
                                                                                                                                                                                      0 Other;
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                                                                                                                                      1; Length 21;
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ce to drought,
cts, viruses or
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Grosse WM, Smillsch.
Larochelle WJ, Shimk

Zhong M, Li L, Gorman L, Spytek KA, Kekuda R, Taupier RJ;
Anderson DW, Vernet CAM, Catterton E, Miller CE, Shenoy SG;
Patturajan M, Pena CEA, Tchernev VT, Padigaru M, Gusev VY;
Malyankar UM, Burgess CE, Gerlach VL, Casman SJ, Rieger DK;
Grosse WM, Smithson G, Peyman JA, Starling G, Rothenberg ME;
Laroochelle WJ, Shinkets RA, Crabtree J, Rastelli L, Voss EZ;
Boldog FL, Edinger SR, Millet I, Macdougall JR, Ellerman K;

CURAGEN CORP. Li L, co

Boldog FL, Chapoval A

2003-313246/30.

Example C;

Page 680; 849pp; English

hypertension,

prostate cancer.

New polypeptides and polynucleotides having stimulation of biochemical or physiological tissue, useful for diagnosing or preventing

properties responses i

cell

or l co

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RESULT 1781
ACD06693/c
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10-SEP-2001
11-SEP-2001
17-SEP-2001
17-SEP-2001
19-SEP-2001
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26-FEB-2002
27-MAR-2002
27-MAR-2002
217-MAY-2002
217-MAY-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cancer-associated cachexia; neurodegenerative disorder; RT-PCR; Alzheimer's disease; Parkinson's disease; immune disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human; ss, PCR; NOVX; cardiomyopathy; atherosclerosie; hypertension; congenital heart defect; prostate cancer; diabetes; metabolic disord neoplasm; graft versus host disease; AIDS; bronchial asthma; probe; Crohn's disease; multiple sclerosis; infectious disease; anorexia;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       reverse transcriptase PCR.
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2002US-0367753P.
2002US-0369479P.
2002US-0379532P.
2002US-0381664P.
2002US-0381672P.
2002US-0381651P.
2002US-0390155P.
2002US-0390155P.
2002US-0390155P.
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2001US-032781P.
2001US-0322816P.
2001US-0323519P.
2001US-0323631P.
2001US-0323636P.
2001US-0324969P.
2001US-0324969P.
2001US-0324969P.
2001US-0324901P.
2002US-0357303P.
2002US-0357303P.
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2001US-0318430P
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disorder;

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RESULT 1779
ABX10462
ID ABX1046
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AC ABX1046
XX
AC ABX1046
XX
DT 29-JAN-
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Best Local Similarity
Matches 17; Conserv
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Kekuda R,
         29-JAN-2003
                                                                                          ABX10462;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         useful for producing non-human transgenic animals which are useful for studying the function and/or activity of NOVX protein and for identifying and/or evaluating modulators of NOVX protein activity. The NOVX nucleic acids can be used in gene therapy. This polynucleotide sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New polypeptides, designated as NOVX, useful for diagnosing and treating infections, neurological diseases, cancer, allergy, and bone, immunological, skin, renal, brain, muscle and autoimmune disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to a novel isolated polypeptide, designated (NOVI - 33), consisting of a mature form of one of 61 sequences, the specification, or its variant, where amino acid residue(s) in variant differ from the mature form, provided that the variant differ from the mature form, provided that the variant differ from the mature form, provided that the variant differ from the mature form, provided that the variant differ from the mature form, provided that the variant differ from the mature form, provided that the variant differ from the mature form, provided that the variant differ from the mature form, provided that the variant differ from the mature form, provided that the variant differ from the mature form, provided that the variant differ from the mature form, provided that the variant differ from the mature form, provided that the variant differ from the mature form, provided that the variant differ from the mature form, provided that the variant differ from the mature form, provided that the variant differ from the mature form, provided that the variant differ from the mature form, provided that the variant differ from the mature form, provided that the variant differ from the mature form, provided that the variant differ from the mature form 
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Vernet CAM,
                                                                                                                                                                            ABX10462 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              represents
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Taupier RJ,
Smithson G,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
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PCR primer of the
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1 A, Wolenc A, Baumgartner J, Sh
1er RJ, Pena C, Shenoy S, Li L,
1er RJ, Malyankar U, Taillon B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.3%;
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Pred. No. 1.
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Gerlach V, Spyt
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), Mezes P, Patturajan M

nrtner J, Shimkets RA, G

Sy S, Li L, Casman S, B

Taillon B, Liu X;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0 Other;
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Rastelli L;
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Boldog F;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
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14-DEC-1990;
12-DEC-1991;
09-DEC-1992;
07-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PCR; primer; 88; CD4; CD3; mAb 98.6; IgG; heavy chain; light chain; membrane bound protein; signal sequence; transmembrane domain; non-MHC restricted extracellular binding domain; AIDS; HIV; cytoplasmic signal-transducing domain; intracellular messenger system; cytotoxic effector cell; viral infection; tumour;
                                                                                                       (WEIS/) WEISS
(IRVI/) IRVING
(ROBE/) ROBERT
WPI; 2003-074691/07.
                                       Capon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      human immunodeficiency virus; acquired immunodeficiency cytomegalovirus; hepatitis C; hepatitis B;
                                                                                                                                                                                                                                                                                                                                           16-JAN-2001; 2001US-00759352
                                                                                                                                                                                                                                                                                                                                                                                     15-AUG-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mycobacterium avium.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human monoclonal antibody 98.6 light
                                                                                   (ZSEB/)
                                                                                                                                                                    (CAPO/)
                                       DJ, Weiss A,
                                                                                                     CAPON D J. WEISS A. IRVING B A. ROBERTS M R.
                                                                                   ZSEBO K.
                                                                                                                                                                                                            91WO-US009431.
92US-00988194.
95US-00475442.
95US-00567393.
                                                                                                                                                                                                                                                                                                  90US-00627643
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  single chain antibody; monoclonal antibody
                                       Irving
                                         BA,
                                         Roberts MR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             chain/ linker
                                         Zsebo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PCR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            syndrome;
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New chimeric DNA encoding a membrane bound protein, useful for treating conditions associated with cells infected with virus or tumor cells, e.diseases caused by HIV (AIDS), cytomegalovirus, hepatitis C or B, or e.g.

Example 3; Fig 10; 53pp; English.

The invention relates to chimaeric DNA encoding a membrane bound protein comprising, in reading frame, DNA encoding: (a) a signal sequence; (b) a CC non-MHC restricted extracellular binding domain of a surface membrane CC protein that binds specifically to at least one ligand, which is a CC protein; (c) a transmembrane domain; and (d) a cytoplasmic signal-CC transducing domain of a protein that activates an intracellular messenger CC system. The extracellular and cytoplasmic domain are not naturally joined to an CC extracellular ligand-binding domain. The chimaeric DNA intitates CC signalling in the host cell when the chimaeric DNA intitates suitable for expression. Also included are: 1) an expression cassette comprising a cranscriptional control of the transcriptional initiation region, the chimaeric DNA under the CC transcriptional control of the transcriptional initiation region; (2) a retroviral RNA or DNA construct comprising the expression cassette; (3) a cell comprising the C-terminal direction comprising in the N- to C-terminal direction the chimaeric protein comprising in the N- to C-terminal direction the chimaeric protein comprising in the N- to C-terminal direction the chimaeric protein as a surface membrane protein; (6) activating cells by means of a secondary messenger pathway; (7) producing a source of cytocoxic effector cells for killing cells infected with virus or cells comprising the sequence and transplanting cells to form modified cell into a mammal; and (8) treating disease associated with cells cinfected with virus or tumour cells such as diseases caused by HIV (e.g. Human immunodeficiency virus causing AIDS, acquired immunodeficiency The Syndrome), cytomegalovirus, hepatitis C or B, or Mycobacterium avium. The

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(first entry)

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15-MAR-2001; 2001US-0276449P.
20-MAR-2001; 2001US-0278151P.
29-MAR-2001; 2001US-0278157P.
29-MAR-2001; 2001US-0278157P.
20-APR-2001; 2001US-0285141P.
30-APR-2001; 2001US-0285141P.
30-APR-2001; 2001US-0287484P.
17-MAY-2001; 2001US-0287484P.
10-JUL-2001; 2001US-0291701P.
08-JUN-2001; 2001US-0291701P.
10-JUL-2001; 2001US-0394353P.
12-JUL-2001; 2001US-0304355P.
12-JUL-2001; 2001US-0311289P.
13-AUG-2001; 2001US-0311289P.
16-AUG-2001; 2001US-03112937P.
16-CCT-2001; 2001US-0312937P.
16-CCT-2001; 2001US-03130227P.
29-NOV-2001; 2001US-0334198P.
                                                                                                                                                                                                                                                                                                                                            (CURA-) CURAGEN CORP.
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Decristofaro MF, Padigaru M, Miller C, Tchernev V, Zhong M, Anderson D, Ballinger R, Gerlach V, Spyt-Burgess CE, Vernet CAM, Kekuda R, Guo X, Zerhuse E, Eisen A, Wol M, Taupier RJ, E, Smithson G, D, Ballinger R, Gerlach V, Spytek KA, Ras Zerhusen B, Andrew D, Wezes P, Patturajan A, Wolenc A, Baumgartner J, Shimkets RA, er RJ, Pena C, Shenoy S, Li L, Casman S, hson G, Malyankar U, Taillon B, Liu X; Zhong H; k KA, Rastelli L; Gusev V; Boldog F;

New polypeptides, designated as NOVX, useful for diagnosing and treating infections, neurological diseases, cancer, allergy, and bone, immunological, skin, renal, brain, muscle and autoimmune disorders.

Example 1; Page 499; 672pp; English.

CR (NOVI - 33), consisting of a mature form of one of 61 sequences, given in CR the specification, or its variant, where amino acid residue(s) in the correct than 1s to fee the amino acids from the variant differ from the mature form, provided that the variant differs in CR ont more than 1s to fee the amino acids from the sequence of the mature of CR of the matched disorder in humans and for treating a syndrome associated CR with a human disease (NoVX-associated disorder). NOVX polypeptides, are useful for determining the presence of or CR predisposition to a disease associated disorder). NOVX polypeptide and CR with another mammal not having or not predisposed to the disease. NOVX CR polypeptide is also useful for identifying an agent that modulates the expression or the amount of nucleic acid from a mammal and comparing it conjupeptide having 55 % sequence identify to NOVX. The antibodies and a cell expression or activity of NOVX. The antibodies and a cell expression or activity of NOVX. The antibodies are useful for identifying an agent that binds to NOVX CR polypeptide having 55 % sequence identify to NOVX polypeptide are useful for clentifying an agent that binds to NOVX CR polypeptides, polypucleotides and antibodies specific for the expression or the expression or activity of NOVX. The antibodies are useful for identifying an agent that binds to NOVX CR polypeptides, polypucleotides and antibodies specific for the polypeptides are useful for treating or preventing disorders or syndromes conjupeptides, polypucleotides and antibodies specific for the polypeptides are useful for treating or preventing disorders or syndromes conjupeptides, polypucleotides and antibodies specific for the NOVX perceins. The NOVX perceins are useful for the NOVX motorial samples such as e.g., Alzheimer's clistent of the NovX proteins are useful for antibody and as primers and probes conjugated to protein activity. The NoVX protein antifying and/or activity of NOVX protein and for identifying candors revaluating modulators of NO

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ABT33487
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Best Local Similarity
Matches 17; Conserv
                                        25.-JAN-2001; 2001US-02641179-25-JAN-2001; 2001US-02644399-26-JAN-2001; 2001US-0263351P-30-JAN-2001; 2001US-0263351P-30-JAN-2001; 2001US-0278351P-30-JAN-2001; 2001US-02759279-14-MAR-2001; 2001US-02759909-15-MAR-2001; 2001US-02778151P-20-MAR-2001; 2001US-02778151P-20-APR-2001; 2001US-0279857P-20-APR-2001; 2001US-0285141P-20-APR-2001; 2001US-0285141P-20-APR-2001; 2001US-0285141P-20-APR-2001; 2001US-0285141P-20-APR-2001; 2001US-0285141P-20-APR-2001; 2001US-0285141P-20-APR-2001; 2001US-0285141P-20-APR-2001; 2001US-0285141P-20-APR-2001; 2001US-0285141P-20-AUR-2001; 2001US-0391355P-10-JUL-2001; 2001US-0304355P-10-JUL-2001; 2001US-0304866P-09-AUG-2001; 2001US-0311289P-13-AUG-2001; 2001US-0311289P-13-AUG-2001; 2001US-0311289P-13-AUG-2001; 2001US-0312975P-18-OCT-2001; 2001US-03130227P-29-NOV-2001; 2001US-0334198P-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             antiparasitic; neuroprotective; cerebroprotective; antiparkinsonian; anticonvulsant; antiaddictive; analgesic; dermatological; keratolytic; antiseborrheic; antirheumatic; antiarthritic; antiinflammatory; anti-Hi cytostatic; antisthmatic; antipaoriatic; hypotensive; osteopathic; antiulcer; anorectic; antidiabetic; antiallergic; haemostatic; antidepressant; antiinflargic; haemostatic; neuroleptic; antidepressant; antiinfertility; NOVX; human disease; NOVX-associated disorder; trauma, viral; bacterial; fungal; protezoal; parasitic infection; Alzheimer's disease; stroke; forensic biology; immunogen; non-human transgenic animal; gene therapy; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 21 BP; 6 A; 6 C; 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Unidentified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Hepatotropic; immunosuppressive; cardiant; hypertensive; tranquilizer; vulnerary; virucide; antibacterial; protozoacide; fungicide; nootropic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ABT33487
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         represents a NOVX PCR primer of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     22-JAN-2002; 2002WO-US002064
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                     2001US-0262892P.
2001US-0263598P.
2001US-0263799P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 14.6;
Pred. No. 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  anti-HIV;
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RESULT 1776
ACA61607/c
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                                                                                                                                                                                                                                                             SXCCCCCCCXXXXIII
                                                                                                                                                                                                                                  Query Match
Best Local (
                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                          The present invention relates to novel double stranded (ds) DNA sequences which can interact with a third strand to form a stable triple helix. The invention also relates to a method for purifying a ds DNA molecule, comprising contact with a third DNA strand that interacts with a target sequence (TS) in the ds DNA to form a triple helix. To illustrate the invention, an oligonucleotide from human FGF1 gene (ABQ81003) was used as the ds DNA sequence. The present sequence is an oligonucleotide used in affinty chromatography of ABQ81003
                  30-JAN-2003
                                                                                                                                                                                                                                                                                                                                 The present invention which can interact with
                                                                                                                                                                                                                                                                                                                                                                             Purifying double-stranded DNA, useful e.g. for isolating plasmids therapeutic genes, by triple helix formation with oligonucleotide directed to a specific target sequence.
03-JUL-2001; 2001US-00898659
                                    US2003024013-A1.
                                                                       Fruit
                                                                                       Fruit size and cell division regulating gene ORFX related
                                                                                                          01-AUG-2003
                                                                                                                                             ACA61607
                                                                                                                                                                                                                                                             Sequence 21
                                                                                                                                                                                                                                                                                                                                                            Example 9; Page 25; 49pp; French.
                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2003-018943/01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     23-MAR-2001;
23-APR-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               25-MAR-2002; 2002WO-FR001034
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 03-OCT-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Triple
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Oligonucleotide used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO200277274-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                    (AVET )
                                                                                                                                                                                                         2800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        sapiens
                                                                      81Ze;
                                                                                                                                                                                         21
                                                                                                                                                                                                                          1 Similarity
17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         helix;
                                                                                                                                                                                                                                                                                                                                                                                                                                  'n
                                                                                                                                                                                                                                                                                                                                                                                                                                                    AVENTIS PHARMA SA
                                                                                                                                             standard;
                                                                                                                                                                                                        AGGAAGGAAAATGAAGAAG 2820
                                                                      cell
                                                                                                                                                                                                                                                             BP; 0 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                  Cameron B;
                                                                                                                                                                                                                           Conservative
                                                                                                          (first entry)
                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2001FR-00003953.
2001US-0285272P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         affinity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
                                                                     division; ORFX; PCR; primer; ss; plant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /note= "5'-NH2-(CH2)6-"
                                                                                                                                             DNA;
                                                                                                                                                                                                                                  0.3%;
                                                                                                                                                                                                                                                             7 C; 0 G; 14 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        in affinity chromatography.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        chromatography; ss.
                                                                                                                                             21
                                                                                                                                             ВP
                                                                                                                                                                                                                          .
                                                                                                                                                                                                                                  Score 14.6;
Pred. No. 1.
                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                  1.1e+03
                                                                                                                                                                                                                                            DB 1;
                                                                                                                                                                                                                                                             0 Other;
                                                                                                                                                                                                                                           Length 21;
                                                                                                                                                                                                                          Indels
                                                                                        primer
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                                                                                              Matches 17; Conserved
                                                         Query Match
Best Local (
                                                                                                                               The invention describes an isolated nucleic acid molecule encoding a protein, which regulates fruit size and/or cell division in plants. The nucleic acid is useful in reducing or increasing the size of a fruit and/or cell division in plants. This sequence represents a primer used to analyse the novel Lycopersicon gene ORFX that regulates fruit size and/or
                                                                                                                   analyse the novel Lycopersicon gene cell division in plants
                                                                                              Sequence 21
                                                                                                                                                                                                       Example 3; Page 9; 35pp; English.
                                                                                                                                                                                                                              division in plants.
                                                                                                                                                                                                                                          New genes, LeORFX and LpORFX, from luseful for increasing or decreasing
                                                                                                                                                                                                                                                                                WPI; 2003-456318/43.
                                                                                                                                                                                                                                                                                                                                (TANK/) TANKSLEY S
                                                                                                                                                                                                                                                                                                                                                      05-JUL-2000; 2000US-0215824P
                      3222 TCCAGCATCACTGAAATCATC 3242
21
g
                                                                                              BP; 5 A;
                                               Conservative
                                                         0.3%;
                                                                                              3 C; 4 G;
                                                                                                                                                                                                                                           LPORFX, from large and small fruited Lycopersicon, or decreasing fruit size, and/or regulating cell
                                             0
                                                          Score 14.6;
Pred. No. 1
                                                                                              9
                                                Mismatches
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H
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                                                                                              ς,
                                                        .1e+03;
                                                                                              0
                                                                       DB 1;
                                                                                              Other;
                                                                      Length
                                               Indels
                                                                       21;
                                               0
                                               Gaps
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19-JAN-2001; 23-JAN-2001; 24-JAN-2001; 25-JAN-2001; 25-JAN-2001; 26-JAN-2001; 30-JAN-2001; 14-MAR-2001;

2001US-0262892P. 2001US-0263799P. 2001US-0264117P. 2001US-0264179P. 2001US-0264478P. 2001US-0264478P. 2001US-0263351P. 2001US-0275927P. 2001US-0275927P. 22-JAN-2002; 2002WO-US002064

WO200281517-A2 17-OCT-2002.

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RESULT 1773
ACF64044
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Best Local S
Matches 17
                                                                                                                      The present invention describes an isolated polynucleotide (PN) comprising: (a) a sequence comprising at least 15 contiguous nucleotides of a sequence comprising variant sequences (A) from Table 4 given in the specification; or (b) a sequence that is complementary to (A). Also described: (1) an array of (PN)s comprising two or more of the isolated (PN)s; (2) detecting a (PN) in an individual; (3) a computer-readable storage medium, where each record has a field identifying a base occupying a (PN) site and a location of the polymorphic site; and (4) a signal carrying data for access by an application program having executed on a data processing system. The (PN) can be used for detecting loci associated with multiple sclerosis. ACF64025 to ACF64424 represent sequences used in the exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ij
                                                                                                  Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                         07-AUG-2001; 2001US-0310741P
24-SEP-2001; 2001US-0324790P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; detection; computer-readable storage medium; polymorphic site; signal carrying data; data processing system; multiple sclerosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ESR1 reverse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           13-OCT-2003
                                                                                                                                                                                                                                                                                            Disclosure; Page 10; 93pp; English
                                                                                                                                                                                                                                                                                                                                   New polynucleotide, useful for detecting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               07-AUG-2002; 2002WO-US025268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20-FEB-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO2003014319-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACF64044 standard;
                                                                                                                                                                                                                                                                                                                                                                                        Jones HB,
                                                                                                                                                                                                                                                                                                                                                                                                                (DNAS-) DNA SCI INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Local Similarity
                                                             Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          the examples of the
                         4777
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3963 CACCTCCAGCACTCCAAGGGC 3983
                                                                                                                                                                                                                                                                                                                                                              2003-268196/26
                                                 Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CACCGCCAGCTCTCCAAAGAC 21
                        CCTGGCTTCTCAGTTCTTTGG 4797
                                                                                                                                                                                                                                                                                                                                                                                      Xu H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BP; 6 A;
                                                                                                  BP; 3 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PCR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  primer #20
                                                                                                                                                                                                                                                                                                                                                                                      White R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.3%;
                                                           0.3%;
                                                                                                  7 C; 4 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 10 C; 3 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ВP
                                                                                                                                                                                                                                                                                                                                                                                      Rienhoff HY,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0; Mismatches
                                                 0
                                                             Score 14.6;
Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 14.6;
Pred. No. 1.
                                                 Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1.1e+03
                                                               .1e+03
                                                                                                                                                                                                                                                                                                                                     loci
                                                                        DB 1; Length 21;
                                                                                                                                                                                                                                                                                                                                                                                      Jin
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                                                                                                                                                                                                                                                                                                                                     associated with multiple
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                                                 Gaps
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RESULT 1775
ABQ81028/c
ID ABQ8102
XX
AC ABQ8102
XX
AC ABQ8102
XX
DT 10-JAN-

ABQ81028 standard;

DNA;

21

10-JAN-2003 ABQ81028;

(first entry)

핝 8

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RESULT 1774
ACC42239/c
ID ACC42239 standard; DNA;
                                                                                                                   Matches
                                                                                                                                            Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                    substrate in a different known location. Also described: (1) identifying a gene(s) that is/are up-regulated by an agent; and (2) selecting a candidate compound. The solid substrate comprising the intrinsic reporters of cell signalling are useful for high content drug profiling and toxicity screening. The methods are useful for identifying set of genes that can be used in the initial stages of signal transduction pathways. The intrinsic reporters of cell signalling are also useful for identifying potential drugs that can be used to modulate conditions or diseases that are due to malfunctioning of one or more signal transduction pathways, e.g. diabetes, cancer, neuropsychiatric disorders, chronic and acute pain, or gastrointestinal disorders. ACC42160 to ACC42281 represent oligonucleotide sequences which are used in the exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New solid substrate comprising several polymers or 50-1000 different nucleic acids coupled to the solid substrate in a different known location, useful for high content drug profiling and toxicity screening.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sealfon S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         chronic pain;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human 26S proteasome-associated padf homologue PCR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21-MAY-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACC42239;
                                                                                                                                                                                                                                   Sequence 21 BP; 5 A; 9 C; 2 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention describes a solid substrate comprising several polymers or 50-1000 different nucleic acids coupled to the solid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; Page 46; 86pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             14-AUG-2001; 2001US-0312220P.
26-SEP-2001; 2001US-0324895P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    14-AUG-2002; 2002WO-US025772.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  27-FEB-2003.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Intrinsic reporter; cell signalling; drug profile; toxicity screening; signal transduction pathway; diabetes; cancer; neuropsychiatric disord
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (MOUN ) MOUNT SINAI SCHOOL MEDICINE
                                     2820 GGAAGTGAGGGGGAGCTGGTG 2840
                                                                                                                   17;
21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Wurmbach
                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             acute pain; gastrointestinal disorder; PCR primer; ss.
                                                                                                                                        0.3%;
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                                                                                                                   0;
                                                                                                                                               Score 14.6; DB 1
Pred. No. 1.1e+03
                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cancer; neuropsychiatric disorder;
                                                                                                                                                                              DB 1;
                                                                                                                   4
                                                                                                                                                                    Length
                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   primer
                                                                                                                   0;
                                                                                                                   Gaps
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RESULT 1771
ABT2154
XX ABT2154
XX ABT2154
XX ABT2154
XX Multipl
XX Multipl
XX Racing
KW Grandm
XX Unident
XX U
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CC endonuclease (RE). The ON forms, with its complement in (I), and RE crecognition site that ensures cleavage only at the selected location. CC Contact between (I) and ON, and treatment with RE, are done at a CC temperature at which (1) (I) is maintained in substantially ss form and CC (ii) RE is active. ON is (i) single stranded, and includes a sequence CC that forms, with its complement in (I), the RE site or (ii) has a double-stranded (ds) region that includes a recognition site for a type IIS RE CC that cleaves at a remote site formed by complementation of (I) and the ss CC region of ON. The method is used to construct libraries of genetic CC packages (phages) that display diverse families of (poly)peptides and CC libraries are screened to identify (A) for possible therapeutic use. The CC method is not biased to DNAs containing native sequences complementary to amplification primers and allows any sequences that may be deleterious to CC expression to be removed before cloning and display. DNAs are cut only at a single (constant) site, without the need to build an RE site into the CC primers used for reverse transcription or amplification, and any natural CC or synthetic site can be used for cleavage. The use of a partially ds ON CC can be created. Both methods allow use of 5 and 3 primers for maximum diversity. This sequence represents a sequence used in the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             δ
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
Determining the racing potential of a horse comprises measuring whether grandpaternal or grandmaternal DNA from the selected grandmother DNA is over-represented in the genome of the horse.
                                                                                                                          WPI; 2003-129314/12.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Racing potential; grandmother; perfo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to a method of cleaving single-stranded (ss) nucleic acid (I) at a selected location, using an oligonucleotide (ON) that is complementary to (I) in the target region and a restriction
                                                                                                                                                                                                                                                                                                                                                                                                    15-MAY-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Multiplex group
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 16-APR-2003
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                                                                                                                                                                                                                                                                                                                                     15-MAY-2001; 2001GB-00011886
                                                                                                                                                                                                                                                                                                                                                                                                                                                               21-NOV-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1036
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17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        _
                                                                                                                                                                                                                                                BRITISH
                                                                                                                                                                                                                                                                             ANIMAL HEALTH TRUST
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                                                                                                                                                                                  Swinburne
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                                                                                                                                                                                                                                                                                                                                                                                                2002WO-GB002273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           performance;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                HORSERACING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PCR primer #296
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ╏
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       horse; grandpaternal DNA; over-represented; breeding;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; 3 C; 6 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NO 111;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        progeny horse; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ВP
                                                                                                                                                                                                                                                BOARD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0,
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Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        .1e+03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BB
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to a novel method for determining racing potential of a horse. The method comprises measuring: whether grandpaternal DNA is over-represented in the genome of the horse; or in the case where one of the grandmothers was selected for breeding on the basis of racing performance, whether grandmaternal DNA from the selected grandmother is over-represented in the genome of the horse which indicates that the horse has good racing potential. The method of the invention is useful for determining the racing potential of a horse or for obtaining a progeny horse with good racing potential. This polynucleotide sequence represents a PCR primer used in the detection method of over-representation of DNA from male grandparents of the invention
                                                                                                        Example
                                                                                                                                  e.g. autoimmune diseases,
                                                                                                                                                Novel ABC transporter protein, ABCA7 splicing the immune system, applicable in diagnosis of
                                                                                                                                                                                        WPI; 2003-239444/23.
                                                                                                                                                                                                                                                                                    25-JUL-2001; 2001JP-00224176
06-DEC-2001; 2001JP-00372530
                                                                                                                                                                                                                                                                                                                          24-JUL-2002; 2002WO-JP007487
                                                                                                                                                                                                                                                                                                                                                        06-FEB-2003.
                                                                                                                                                                                                                                                                                                                                                                                                              Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; ATP-binding cassette transporter protein A7; ABC transporter; ABCA7; autoimmune disease; Sjogren's syndrome; inflammation; abnormal lipid metabolism; arteriosclerosis; ABCA-SSN inhibitor; immunomodulator; immunosuppressive; antiinflammatory;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human ABCA7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example
                                                                                                                                                                                                                                                                                                                                                                                   WO2003010315-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                        antiarteriosclerotic; reverse transcriptase-PCR; RT-PCR; primer; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  18-JUN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ABX95301 standard; DNA;
                                                                                                                                                                                                                                              (KAZU-)
                                                                                                                                                                                                                                                            (KYOW)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4440 GGCCACATGGATCGAACACTC 4460
                                                                                                                                                                                                                                                                                                                                                                                                             sapiens
                                                                                                                                                                                                                                            KYOWA HAKKO KOGYO KK.
KAZUSA DNA RES INST F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2
                                                                                                       2; Page 164; 183pp; Japanese
                                                                                                                                                                                                                 Nakagawa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Page 25;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       associated RT-PCR primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BP; 9 A; 6 C; 5 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            49pp;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        21
                                                                                                                                  Sjoegren's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            English
                                                                                                                                                                                                                                              FOUND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 14.6;
Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                                  syndrome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        #4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            .le+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 1;
                                                                                                                                  variant, participating in and screening drugs for and inflammations.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
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The present invention relates to the isolation of human ATP-binding cassette (ABC) transporter protein A7 (ABCA7) splice variants, and the polynucleotide sequences encoding them. The protein is applicable in the diagnosis and screening of drugs for autoimmune diseases, Sjogren's syndrome, inflammations, abnormal lipid metabolism and arteriosclerosis. It may also be used in a method for screening ABCA-SSN inhibitors. The

present sequence

represents a reverse

transcriptase (RT)-PCR

primer used

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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                               PCR; primer; ss; retroviral packaging plasmid; retrovirus; gene gene therapy; replication-incompetent; replication-competent; replication-competent; helper virus; prs; long terminal repeat; virus; psi; xenotropic; amphotropic; ecotropic; polytropic; envelope protein; haematopoi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to a novel method for determining whether a patient has an increased risk for recurrent prepancy loss, involving determining whether the formin-2 (Fmn-2) gene of the patient has a mutation. The method of the invention is useful for determining whether a patient has a increased risk for recurrent pregnancy loss (RPL/recurrent spontaneous abortion/miscarriage). The sequence represents a PCR primer used in the invention to amplify the Fmn-2 coding sequence
                                                                                                                                                                                                                                                                                                                                                            Retroviral packaging plasmid construction PCR primer,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Determining whether patient has increased risk for recurrent pregnancy loss by determining whether formin-2 (Fmn-2) gene of patient has mutation, or by measuring Fmn-2 biological activity or Fmn-2 expression
           WPI; 2002-722693/78
                                                                                                                                                                                                                                                                                                                                                                                                               ABX64370;
                                                                                                                                                                                                                                                                                                                                                                                                                                       ABX64370 standard; DNA; 21
                                                                                                                                               11-JUN-1993;
10-JUN-1994;
                                                                                                                                                                                    04-SEP-2001; 2001US-00944411
                                                                                                                                                                                                             08-AUG-2002
                                                                                                                                                                                                                                    US2002106799-A1.
                                                                                                                                                                                                                                                             Unidentified
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        13-APR-2000; 2000US-0196811P.
                                   Finer MH,
                                                                                   (DULL/)
                                                                                                                                    20-AUG-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (LEDE/) LEDER I
                                                                                                           (FINE/)
                                                                                                                                                                                                                                                                                  cell; lymphocyte; probe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2002-690474/74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           114 GTCTCCAGAGCCGGTCATTCC 134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   μ
                                                         DULL T J.
ZSEBO K M.
COOKE K.
FARSON D A.
                                                                                                FINER M H.
DULL T J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GTCTGCAGAGGCTGTCAATCC 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Leader B;
                                 Dull TJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BP; 4 A; 6 C; 6 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
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                                                                                                                                   93US-00076299.
94US-00258152.
97US-00914893.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.3%;
                                   Zsebo
                                                                                                                                                                                                                                                                                                                                                                                                                                       BP
                                   3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 14.6;
Pred. No. 1
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                                   Cooke
                                                                                                                                                                                                                                                                                                envelope protein; haematopoietic;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1;
                                   Farson
                                   DA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                             #25
                                                                                                                                                                                                                                                                                                                                   gene delivery;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                expression
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The invention discloses a retroviral packaging plasmid for producing CC recombinant retrovirus in human cells. Retrovirus vectors have become the CC primary tool for gene delivery in human gene therapy applications. The CC incompetent retroviral helper DNA sequence, derived from a replication-incompetent retroviral genome, encoding, in trans, all virion proteins are required for packaging a replication-incompetent retroviral vector and CC incompetent retroviral vector at high titer, without production of a replication-competent helper virus. The retroviral DNA sequence lacks the CC region encoding the native enhancer and/or promoter of the viral 5' LTR (long terminal repeat) of the virus and lacks both the gsi function CC sequence responsible for packaging helper genome and the 3' LTR, but encodes a foreign enhancer and/or promoter functional in a selected CC mammalian cell, and a foreign polyadenylation site, from a xenotropic, amphotropic, ecotropic or polytropic envelope protein. The retroviral packaging plasmid is useful for a high efficiency method to transduce with high cficiency cells that are refractory to transduce with high efficiency cells that are refractory to transduction by conventional cells and nother succession of the production of high titer viral supernatants and to transduce with high efficiency cells that are refractory to transduction by conventional cells and nother successions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     genome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Novel retroviral packaging system useful for producing high-titers of recombinant retrovirus in human cells, comprises at least one retroviral helper DNA sequence derived from replication-incompetent retroviral
                                                       and probes used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure; Page 9; 53pp;
                                                          in the construction of the retroviral packaging plasmids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           English
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문 á Matches Query Match Best Local Local Similarity 264 CCCCCCCTCTCTCTTTCTC 284 17; CCACCCTCACTCTGCTTCTC 21 Conservative 0.3%; <u>,</u> Score 14.6; DB 1; Pred. No. 1.1e+03; Mismatches 4. Length Indels 21; 0; Gaps 0

Sequence 21 BP; 2 A;

12 C; 1 G; 6 T; 0 U; 0 Other;

RESULT 1770 ADI46213 ID ADI4621 Single stranded nucleic acid cleavage method related nucleotide #98. 22-APR-2004 ADI46213; ADI46213 standard; (first entry) DNA; 21

ss; single-stranded nucleic acid cleavage; restriction endonuclease; complementation; genetic package; bacteriophage display library;

antibody fragment.

Unidentified.

WO200179481-A2

17-APR-2001; 2001WO-US012454.

17-APR-2000; 2000US-0198069P

(DYAX-) DYAX CORP

Cohen EH, Nastri ਜੂ ਜੂ Rookey Ę

WPI; 2002-011131/01.

Selective cleavage of single-stranded nucleic acid, useful for preparing display libraries of proteins and peptides, by hybridization with

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AXU
                                                       RESULT 1767
ABL56936
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                                                                                                                                                                                                                                                                                                   CC codon and a targeting nucleotide sequence homologous to a gene of codon and a targeting nucleotide sequence. The fusion protein can complete the viral protein is 5' of the stop codon cc which is, in turn, 5' of the targeting sequence. The fusion protein can coat protein that is native to the viral genome and is deleted or complete the viral genome and is deleted or complete the composition of cc can be a recombinant plant constructing a phenotypic or biochemical cc change in a plant host comprising constructing and introducing into a cc plant host a recombinant plant virus and then growing the plant host. The cc compositions and methods of the present invention are useful for capressing a fusion protein, a foreign protein or to silence a gene cc interest in a host. They can also be used to screen a cDNA or genomic cc library in order to correlate a nucleotide sequence with a phenotypic or biochemical change. The sequences presented in ABS67514 are the CC RC primers which were used in the construction of the monocot viral
                                                                                                                                                                                                                                        Query Match
Best Local
                                                                                                                                                                                                                   Best Local Similarity Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention discloses a method for cytoplasmic inhibition of gene expression in a monocot plant by using a plant viral vector comprising a polynucleotide encoding a promoter operatively linked to a polynucleotide encoding a promoter operatively linked to a transcriptional unit. The transcriptional unit encodes a fusion protein that comprises a viral protein, a protein of interest and an autoproteolytic peptide fused between them or viral protein, a stop and a targeting nulloctide segments beautoproteolytic peptide fused between them or viral protein, a stop
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PCR; primer; BSMV; 88; cytoplasmic inhibition; gammab; RNA beta; beta
gene expression; monocot plant; plant viral vector; BMV;
autoproteolytic peptide; coat protein; phenotype; biochemical change;
plant virus; fusion protein; gene silencing; RNA gamma; gamma42; PDS;
photoene desaturase; GFP; green fluorescent protein; linker.
ABL56936;
                                       ABL56936 standard;
                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure; Page 49; 122pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New isolated polynucleotide encoding a promoter operatively linked to a transcriptional unit, useful for expressing foreign peptides and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2002-599800/64.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Holzberg
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Barley stripe mosaic virus.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29-NOV-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     regulating gene expression in a plant host.
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                                                                                                                                                                              2805
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                                                                                                                                                                                                                                                                                                                                      disclosed within the specification
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                                                                                                                                                                            GGAGAAAATGAAGAAGGAAGT 2825
                                                                                                                                                                                                                 0.3%;
nilarity 81.0%;
Conservative
                                                                                                                                                                                                                                                                                                   BP; 4 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        #1, used to amplify BSMV gamma42 cDNA
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                                       DNA;
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                                       21
                                                                                                                                                                                                                   0;
                                                                                                                                                                                                                                      Score 14.6;
Pred. No. 1.
                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                        1.1e+03;
                                                                                                                                                                                                                                                          DB 1;
                                                                                                                                                                                                                     4
                                                                                                                                                                                                                                                      Length 21;
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ABQ79112
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AC ABQ7
AC ABQ7
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AC ABQ7
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AC ABQ7

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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to an expression cassette (EC1), comprising the regulatory elements (I) of the polypeptide IX (pIX) gene of human adenovirus of group C and a foreign DNA coding sequence (II). EC1 is us to prepare adenoviral expression vectors for protein production. EC1 produce expression systems with high expression rates (associated with use of (I)) and allow simple production of genetically modified adenovirus without requiring ligation. The present sequence is that of PCR primer used to generate a rabies surface glycoprotein 1 expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Expression cassette of useful for preparing
                                                                                                                                                                                                                                            Mouse; formin-2; recurrent pregnancy loss; formin-2; spontaneous abortion; miscarriage; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                          Mouse Fmn-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 21 BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic
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                                                                                                                                     US2002098489-A1
                                                                                                                                                                                                                                                                                                                                                                                  22-NOV-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                      ABQ79112;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ABQ79112 standard; DNA; 21 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cassette used to exemplify the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 4; Page 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Doehner L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (MICR-) MICROMUN PRIVATES INST MIKROBIOLOGISCHE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           15-SEP-2000; 2000DE-01045687.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                389
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  l Similarity
17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GCAGCAGCCGAGGCCACCAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GCAGCAGCCGCCGCCCATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cassette containing adenoviral pIX regulatory sequences, preparing new adenoviral vector for large scale protein
                                                                                                                                                                                                                                                                                                                             PCR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Becher D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.3%;
ilarity 81.0%;
Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3 Å;
                                                                                                                                                                                                                                                                                                                          primer 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 54pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         10 C; 7 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Salim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 14.6; D
Pred. No. 1.1e
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 expression
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ABS97582
                                                                                                                                            KW Human; ds; cytochrome P450 A1; CYP4501A1; UGT2B4; MDR1;
KV cytochrome P450 A2; CYP4501A2; cytochrome P450 02E; CYP45002E1; LTF;
KV cytochrome P450 A2; CYP4501A2; cytochrome P450 02E; CYP45002E1; LTF;
KW adrenergic receptor beta1; ADBR1; aryl hydrocarbon; ARR; MRP3; NR112;
KW aryl hydrocarbon receptor nuclear translocator; ARRT; cathepsin S; CTSS;
KV cyclooxgenase 2; COX2; diazepam binding inhibitor; DBI; haematological;
KW cyclooxgenase 2; COX2; diazepam binding inhibitor; DBI; haematological;
KW cyclooxgenase 2; COX2; diazepam binding inhibitor; DBI; haematological;
KW cyclooxgenase 2; COX2; diazepam binding inhibitor; DBI; haematological;
KW diathione-S-transferase 2; GST12; histamine-N-methyl transferase; NNMT;
KW HNMT; kallikrein 2; KLK2; nicotinamide-N-methyl transferase; NNMT;
KW HNMT; kallikrein 2; KLK2; nicotinamide-N-methyl transferase; NNMT;
KW HNMT; kallikrein 2; KLK2; nicotinamide-N-methyl transferase 28 NNMT;
KW HNMT; kallikrein 2; KLK2; nicotinamide-N-methyl transferase 28 NNMT;
KW HNMT; kallikrein 2; KLK2; nicotinamide-N-methyl transferase 28 NNMT;
KW HNMT; kallikrein 2; KLK2; nicotinamide-N-methyl transferase 28 NNMT;
KW HNMT; kallikrein 2; KLK2; nicotinamide-N-methyl transferase 28 NNMT;
KW HNMT; kallikrein 2; KLK2; nicotinamide-N-methyl transferase 28 NNMT;
KW HNMT; kallikrein 2; KLK2; nicotinamide-N-methyl transferase 28 NNMT;
KW HNMT; kallikrein 2; KLK2; nicotinamide-N-methyl transferase 28 NNMT;
KW HNMT; kallikrein 2; KLK2; nicotinamide-N-methyl transferase 28 NNMT;
KW HNMT; kallikrein 2; KLK2; nicotinamide-N-methyl transferase 28 NNMT;
KW HNMT; kallikrein 2; KLK2; nicotinamide-N-methyl transferase 28 NNMT;
KW HNMT; kallikrein 2; KLK2; nicotinamide-N-methyl transferase 28 NNMT;
KW HNMT; kallikrein 2; KLK2; nicotinamide-N-methyl transferase 28 NNMT;
KW HNMT; kallikrein 2; KLK2; nicotinamide-N-methyl transferase 28 NNMT;
KW HNMT; kallikrein 2; KLK2; nicotinamide-N-methyl transferase 28 NNMT;
KW HNMT; kallikrein 2; KLK2; nicotinamide-N-methyl transferase 28 NNMT;
KW HNMT; kallikrein 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PCR primers ABL59343-44 were used to amplify cDNA encoding an AA233368 protein. This protein is encoded by a benign prostatic hyperplasia (BPH) gene. The BPH gene is differentially expressed in BPH tissue compared to normal prostate tissue. cDNA sequences corresponding to the first and second ORFs were obtained by the oligo-pulling method. BPH nucleic acids and polypeptides may be used as diagnostic agents to detect BPH in a sample or monitor the progression of BPH in a patient. BPH proteins may serve as a target for modulating agents
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Novel isolated polypeptide or protein encoded by a benign prostatic hyperplasia gene, useful for diagnosing a disease state such as benign prostatic hyperplasia in a subject.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABS97582 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Munger WE,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human epoxide hydroylase 2 polymorphic sequence #73.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 3; Page 5; 56pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2002-566616/60
                                                                                                   central nervous system; pulmonary; immunological; single nucleotide polymorphism.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          23-DEC-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BP; 4 A; 7 C; 7 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Kulkarni P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            81.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 14.6;
Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1.1e+03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 21;
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WO200257410-A2

ABS67554/c ID ABS675 XX

ABS67554 standard;

RESULT 1766

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CC thuman cytochrome P450 All (CYP4501Al), corporation (AHR), aryl hydrocarbon receptor betal (ADBRI), caryl hydrocarbon (AHR), aryl hydrocarbon receptor nuclear translocator (CHART), cathepsin S (CTSS), cycloxgenase 2 (COX2), diazepam binding C inhibitor (DBI), epoxide hydroxylase 2 (EPX2), 5-lipoxygenase activating C inhibitor (DBI), epoxide hydroxylase 2 (COX2), diazepam binding C inhibitor (DBI), epoxide hydroxylase 2 (COX2), diazepam binding C inhibitor (DBI), peoxide hydroxylase 2 (COX2), diazepam binding C inhibitor (DBI), peoxide hydroxylase 2 (COX2), diazepam binding C inhibitor (DBI), epoxide hydroxylase 2 (COX2), diazepam binding C inhibitor (DBI), epoxide hydroxylase 2 (COX2), diazepam binding C (COX2), maintiding C (NMR1), peoxide hydroxylase 2 (NMR1), multiding resistance 2 (NMR1), Lactorransferase that C (UGT2B7), unclear receptor (NR1), multiding resistance 2 (NMR1), lactorransferase (UGT2B1), multiding resistance 2 (MMR1), lactorransferase in the human genes cited in the invention are useful as C (MR2), crphan nuclear receptor (NR1), multiding resistance as secilated protein 3 (CMR2), crphan nuclear receptor (NR1), crphan constitutive exponsible for a variety of disorder-related C craptession, mutation or underexpression, which may be used in diagnosing C craptession, mutation or underexpression, which may be used in diagnosing C craptession, mutation crapter and crapter comprising the coloration of the coloration of constitutive comprising the coloration of coloration o
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                                                                                    Matches
                                                                                                      Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Isolated nucleic acid molecules having polymorphisms in known human genes e.g. cytochrome p450 and cathepsin S useful as genetic linkage markers for locating, identifying and characterizing the genes responsible for
                                                                                                                                                                      Sequence 21
                                                                                                                                                                                                                                     haematological function, peripheral nervous system
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                This invention relates to the sequence of an isolated nucleic acid molecule comprising at least one base variation from that of a known human cytochrome P450 A1 (CYP4501A1), cytochrome P450 A2 (CYP4501A2),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       disorder-related traits
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               28-NOV-2000; 2000US-00724389
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (DNAS-) DNA ŚCI LAB INC
                               3793 GGGCGGCCGGCGGGACAAGA 3813
GGGTGGCCTGCGGGGAGCAGA
                                                                                                                                                                                                               nervous system function. The page of the invention
                                                                                                                                                                        BP; 3 A;
                                                                                                    0.3%;
                                                                                                                                                                        4 C;
                                                                                                                                                                        12
                                                                                 0
                                                                                                      Score 14.6;
Pred. No. 1.
                                                                                                                                                                        G; 2 T; 0 U; 0 Other;
21
                                                                                      Mismatches
                                                                                                                                                                                                                                        The present
                                                                                                    1.1e+03
                                                                                                                          DB 1; Length
                                                                                                                                                                                                                                     sequence
                                                                                                                               21;
                                                                                    0
                                                                                    Gaps
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RESULT 1763
ABN88549/c
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                                                                                                                                                                                                                                                                                                                                            RESULT 1762
AAD30433
                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                            The invention relates to a method for assessing the risk of prostate cancer in a human subject. The method involves determining the length of the contiguous CAG or CAA repeats in both AIBI (Amplified In Breast cancer 1) gene alleles or contiguous CAG, CAA or GGN repeats in the androgen receptor gene of the subject. The method is useful for assessing a subject's risk for acquiring or developing prostate cancer. The present sequence is a PCR primer used to amplify human androgen receptor (AR) gene exon 1 and is used in the molecular analysis and assessment of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Assessing the risk of acquiring or developing prostate cancer in subject, comprises determining the length of the contiguous CAG, and/or GGN repeats in the AIB1 gene and/or androgen receptor gen
                                                  RNA aptamer; identification; coagulation factor; angiopoietin; thrombin; E2F family; cardiant; cytostatic; cardiovascular disease; anticoagulant;
                                                                                                                                                                                                                                                                                                                                          Sequence 21 BP; 6 A; 8 C; 4 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; AIB1; amplified in breast cancer 1; androgen prostate cancer; exon 1; PCR primer; ss.
Homo sapiens
                        bypass
                                    cell proliferation;
                                                                                       E2F binding/inhibiting RNA aptamer related sequence
                                                                                                                  19-AUG-2002
                                                                                                                                            ABN88549;
                                                                                                                                                                      ABN88549 standard; RNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 19; Page 41; 86pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human androgen receptor (AR)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         21-MAY-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAD30433;
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                                                                                                                                                                                                                                                                                                                                                                    gene
                                                                                                                 entry)
                                    intimal hyperplasia; angiogenesis;
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Pred. No. 1.1e
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                                                                                                                                                                                                                                                                                         Indels
                                                                                        SEQ ID
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biological activity of a coagulation pathway factor which involves cadministering (I) to a warm-blooded vertebrate (e.g., a mammal) such that the biological activity of the coagulation pathway factor in the warm-complete the biological activity of the coagulation pathway factor in the warm-blooded vertebrate is modulated. (I) are also useful for treating complete the cardiovascular diseases in the mammal. (II) are useful for modulating E2F contivity in a warm-blooded vertebrate. (II) are useful for modulating E2F complete the control of the activity in a warm-blooded vertebrate. (II) are potent complete the activity in a warm-blooded vertebrate. (II) are potent complete the activity in a warm-blooded vertebrate. (II) are potent control of the activity in a warm-blooded vertebrate. (II) are potent control of the activity in a warm-blooded vertebrate. (II) are useful for modulating cell proliferation in a number of conditions e.g., intimal hyperplasia following bypass graft surgery. (III) are useful for modulating angiogenesis. The RNA aptamers are also useful for diagnostic, cresearch and therapsutic context. The aptamers are useful as diagnostic context the presence or absence of target substances to which they specifically bind, and for identifying substances to which they bind, for isolating and purifying substances to which they bind, and as a separation reagent for retrieving the targets to which they bind, and so a separation reagent for retrieving the targets to which they carried the process the context of the process to the process the context of the process and an apparation of the process to the process of the process 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention describes RNA aptamers (I,II,III) that selectively bind: (a) a coagulation pathway factor; (b) an E2F family member; or (c) angiopoietin-1 (Ang1) or Ang2, respectively, where (I), (II), (III) have a dissociation constant for the coagulation pathway factor, an E2F famil, member, or Ang1 or Ang2 of about 20 nM or less. (I), (II) and (III) have cardiant and cytostatic activities. (I) are useful for modulating the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Novel RNA aptamers that selectively bind coagulation pathway factors, E family members, Angl or Ang2, useful for modulating coagulation pathway factor activity, E2F activity and Angl or Ang2 activity in a mammal.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 31; Fig 17; 216pp; English.
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                                                              sequences used in the exemplification of the present
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (UYDU-) UNIV DUKE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        nember; or (c)
(), (III) have
an E2F family
and (III) have
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E2F

Sequence 21 BP; 7 A; 0 C; 14 G; 0 T; 0 U; 0 Other;

δ Query Match Best Local S Matches 17 Local Similarity 270 21 CCCTCCTCTTCCTCTCTCCC 1 crererererererere 290 Conservative 0.3%; 0 Score 14.6; Pred. No. 1 Pred. Mismatches .1e+03 BG 1; 4 Length 21; Indels 0 Gaps 0

RESULT 1764 ABL59344 ABL59344; ABL59344 standard; DNA; 21 BP

07-OCT-2002 (first entry

PCR primer for cDNA encoding a human AA233368 protein.

Human; AA233368; benign prostatic hyperplasia gene; BPH gene; PCR; primer; ss.

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RESULT 1760
ABS67977
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Best Local S
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                    The invention relates to a method for preventing diabetes mellitus comprising administering a platelet activating factor acetylhydrolase (PAF-AH) product to a subject at risk of developing diabetes mellitus. The method is also used to slow the progression of diabetes mellitus i patient suffering from the disease. This sequence represents a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 hypersensitivity reactions, sepsis, autoimmune diseases, inflammatory arthritis, cancer, wounds, viral, bacterial or fungal infection, Chronic obstructive pulmonary disease (COPD) and enterocolitis (many other diseases and disorders are listed in the specification). The polynucleotides are also useful for chromosome identification. Antibodies against the proteins may be utilised for immunophenotyping of cell lines and biological samples. The present sequence is included in the sequence listing but is not referred to anywhere else in the specification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           involve angiogenesis like haemangiomas, tumours, sarcomas, Crohn's disease, trachomas, and cardiovascular diseases like angina pectoris, hypertension, heart failure, myocardial infarction, ventricular hypertrophy, vascular diseases, aneurysm, embolism, thrombosis, coronary artery disease, arteriosclerosis and/or atheroscless, and arteriosclerosis, and arteriosclerosis, and arteriosclerosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            human protein selected from the group above; and (6) genotyping (M4) an individual comprising obtaining a nucleic acid sample, determining the nucleotide present in at least one polymorphic position, and comparing a least one position with a known data set. The genes, (M1, M2, M3 and M4) and compositions are useful for detecting, diagnosing, treating, preventing various disorders such as angioedaema and diseases which involve angiogenesis like haemangiomas, tumours, sarcomas, Crohn's
                                                                                                                                                                                                                                                    Preventing diabetes mellitus comprises administering a platelet activating factor acetylhydrolase product to a subject at risk developing the disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Saccharomyces cerevisiae
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                                                                                                                                                                                                    Disclosure;
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Saccharomyces
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                                                                                                                                                                                                                                                                                                                                                                                                                                    Peterman
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  cerevisiae
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     PAF-AH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ВP
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Pred. No. 1.1e+03;
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     related
oligonucleotide
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                                                                                                                                                                                                                                                                                        at risk of
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RESULT 1761
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Best Local S
Matches 17
                           Matches
                                       Query Match
Best Local
                                                                                                                                                        The invention relates to a novel polynucleotide encoding a human histon acetyltransferase (HA) polypeptide. The protein of the invention has cytostatic activity. The human HA can be used to identify test compound which may act as activators or inhibitors at the enzyme's active site, raising specific antibodies which can block the enzyme and effectively reduce its activity, to treat disorders such as cancer, and to screen fouman HA activators and inhibitors. HA may also be used in diagnostic assays for detecting diseases and abnormalities or susceptibility to diseases and abnormalities related to the presence of mutations in the nucleic acid sequences which encode the enzyme. The expression vector of mutations in the nucleic acid sequences which encode the enzyme.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 21 BP; 10
                                                                               Sequence
                                                                                                                 the reagent is useful in the preparation of a medicament for modulating the activity of an HA in a disease, such as cancer. The sequence represents a PCR primer used in the invention to amplify human histone
                                                                                                                                                                                                                                                                                                                                             New isolated polynucleotide encoding a histone acetyltransferase polypeptide, useful for preventing, ameliorating and/or treating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 05-FEB-2001; 2001US-0265891P.
16-NOV-2001; 2001US-0331473P.
04-DEC-2001; 2001US-0334928P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; histone acetyltransferase; cytostatic; cancer; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human histone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABV72653 standard;
                                                                                                                                                                                                                                                                                                       Example 9; Page 75; 145pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                Koehler RH
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
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                                                                                                                                                                                                                                                                                                                                  associated
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Pred. No. 1.1e
0; Mismatches
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                                         Score 14.6;
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AGATCCAGACAGAGAGGAGGG

ABS60541;

ABS60541 standard; DNA;

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. . 2365 AGCTGCTCACAGAGAGGAGGG

2385 21

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CC encoding aminopeptidase P (FMEPE), bradykinin receptor B1 (BDRB1), cl esterase inhibitor (CLNH), kallikrein CC (ACE2) or protease inhibitor 4 (PI4), comprising at least one CC (ACE2) or protease inhibitor 4 (PI4), comprising at least one CC polymorphic position. Also included are (1) a protein that hybridises to a CC polymorphic position as provided in the detailed summary of single CC obtaining the sample from one or more individuals and determining the encoding a protein selected from the group above; (3) constructing (M1) at least one polymorphic positions in a gene CC encoding a protein selected from the group above; (3) constructing (M2) that lockypes using the genes comprising grouping at least two nucleic acids eacids (4) identifying (M3) an individual at risk of developing a disorder CC using the polymorphic data; (5) a library of nucleic acids each of which comprises one or more polymorphic positions within a gene encoding a the polymorphic data; (5) a library of nucleic acids each of which comprises one or more polymorphic positions within a gene encoding a thuman protein selected from the group above; and (6) genotyping (M4) an individual acids sender encoding a the comprising obtaining a nucleic acid sample, determining the cleast one position with a known data set. The genes, (M1), M2, M3 and M4) and compositions are useful for detecting, diagnosing, treating, and compositions are useful for detecting, diagnosing, treating, and composition with a known data set. The genes, (M1), M2, M3 and M4) and composition with a known data set. The genes, (M1), M2, M3 and M4) and composition are useful for detecting, diagnosing, treating, and involve angiogenesis like anemangiomas, tumours, sarcomas, Crohn's (M2) and compositions, had an acid sease in the acid seases which compositions, which compositions, the proteins, and compositions, the proteins, and compositions, the proteins, and the proteins, and composition, coronary compositions, the proteins and compositions, the proteins and compositions, the pro
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23-JAN-2001;
02-MAR-2001;
                                  polynucleotides are also useful for chromosome identification. Antibodies against the proteins may be utilised for immunophenotyping of cell lines and biological samples. The present sequence is included in the sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to an isolated nucleic acid from a human encoding aminopeptidase P (XPNEP2), bradykinin receptor B1 (BDR tachykinin receptor B1 (TACR1), C1 esterase inhibitor (C1NH),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New isolated nucleic acid with at least one polymorphic position, use for detecting, diagnosing and treating disorders such as angioedema, cancer, viral, bacterial or fungal infection, cardiovascular and
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; Page 804; 977pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2002-619265/66.
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TSUCHIHASHI Z.
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2001US-0263678P.
2001US-0273037P.
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    not
referred to anywhere else in the
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Perrone
specification
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(BDKRB1),
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Best Loc Matches Query Match

Local

17; Conser

0.3%; llarity 81.0%; Conservative

Score 14.6; DB 1; Pred. No. 1.1e+03;

Length 21; Indels

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Sequence

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RESULT 1759
ABS60541
ID ABS6054
XX ABS6054
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KW Lachyki
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KW Lachyki
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encoding aminopeptidase P (XPNEP2), bradykinin receptor B1 (BDKRB1), C1 catchykinin receptor B1 (TACR1), C1 esterase inhibitor (C1NH), kallikrein CC 1 (KLKI), bradykinin receptor B2 (BDKRB2), angiotensin converting enzyme CC (ACE2) or protease inhibitor 4 (P14), comprising at least one CC polymorphic position. Also included are (1) a probe that hybridises to a CC polymorphic position as provided in the detailed summary of single CC nucleotide polymorphisms comprising additional 5 and 3 flanking genomic CC sequence; (2) analysing (M1) at least one nucleic acid sample comprising CC obtaining the sample from one or more individuals and determining the constitution of an accidence of the group above; (3) constructing (M2) an individual at risk of developing a disorder CC using the polymorphic data; (5) a library of nucleic acide, each of which comprises one or more polymorphic positions enhabitor using the polymorphic data; (5) a library of nucleic acide, each of which comprises one or more polymorphic positions within a gene encoding a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         aminopeptidase P; XPNEP2; bradykinin receptor B1; ds; BDKRB1; tachykinin receptor B1; TACR1; C1 esterase inhibitor; C1NH; k KLK1; bradykinin receptor B2; BDKRB2; gene therapy; angiotensin converting enzyme 2; ACB2; protease inhibitor 4; polymorphism; haemangioma; tumour; sarcoma; Crohn's disease; cardiovascular disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   04-DEC-2000; 2000US-0251015P
23-JAN-2001; 2001US-0263678P
02-MAR-2001; 2001US-0273037P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; Page 803; 977pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       autoimmune diseases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New isolated nucleic acid with at least one polymorphic position, us for detecting, diagnosing and treating disorders such as angioedema, cancer, viral, bacterial or fungal infection, cardiovascular and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2002-619265/66.
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Swanson BN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (BRIM )
(TSUC/)
(HUIL/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cardiovascular disease; angina pectoris; hypertension; heart failure; myocardial infarction; ventricular hypertrophy; vascular disease; angueurysm; embolism; thrombosis; coronary artery disease; angloedaema;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human polymorphism associated
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HUI L.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ntion relates to an isolated nucleic acid from a human gene
aminopeptidase P (XPNEP2), bradykinin receptor B1 (BDKRB1),
in receptor B1 (TACR1), C1 esterase inhibitor (C1NH), kallikrein
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Powell
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Aminopeptidase P; XPNEP2; bradykinin receptor B1; ds; BDKRB1; tachykinin receptor B1; TACR1; C1 esterase inhibitor; C1NH; kallikrein KIK1; bradykinin receptor B2; BDKRB2; gene therapy; angiotensin converting enzyme 2; ACE2; protease inhibitor 4; P14; polymorphism; haemangioma; tumour; sarcoma; Crohn's disease; trachoma, cardiovascular disease; angina pectoris; hypertension; heart failure; myocardial infarction; ventricular hypertrophy; vascular disease; aneurysm; embolism; thrombosis; coronary artery disease; angioedaema; arteriosclerosis; atherosclerosis; hypersensitivity; sepsis; autoimmune disease; inflammatory arthritis; cancer; wound; viral infection; bacterial infection; fungal infection; COPD; chronic observative pulmary disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           preventing various disorders such as angioedaema and diseases which involve angiogenesis like haemangiomas, tumours, sarcomas, Crohn's disease, trachomas, and cardiovascular diseases like angina pectoris, hypertension, heart failure, myocardial infarction, ventricular hypertrophy, vascular diseases, aneurysm, embolism, thrombosis, coronary artery disease, arteriosclerosis and/or atherosclerosis, and hypersensitivity reactions, sepsis, autoimmune diseases, inflammatory arthritis, cancer, wounds, viral, bacterial or fungal infection, Chronic obstructive pulmonary disease (COPD) and enterocolitis (many other diseases and disorders are listed in the specification). The
New isolated nucleic acid with at least one polymorphic position, useful for detecting, diagnosing and treating disorders such as angioedema, cancer, viral, bacterial or fungal infection, cardiovascular and
                                                                                                                                                                                                                                                           04-DEC-2000; 2000US-0251015P.
23-JAN-2001; 2001US-0263678P.
02-MAR-2001; 2001US-0273037P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   polynucleotides are also useful for chromosome identification. Antibodies against the proteins may be utilised for immunophenotyping of cell lines and biological samples. The present sequence is included in the sequence listing but is not referred to anywhere else in the specification
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                                                                                                                       Tsuchihashi Z, Hui
Swanson BN, Powell
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                                                                                  2002-619265/66.
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) TSUCHIHASHI Z.
) HUI L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        obstructive
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                                                                                                                     JR;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      pulmonary
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                                                                                                                                                                                                                      SQUIBB
                                                                                                                                          Zerba
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Pred. No. 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      disease; enterocolitis
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                                                                                                                                          Ma-Edmonds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; DB 1;
1.1e+03;
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                                                                                                                                          Perrone
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RESULT 1758
ABS60547
ID ABS6054
XX
AC ABS6054
XX
DT 05-NOVXX
DE Human p
XX
DE Human

05-NOV-2002

(first

entry)

ABS60547;

ABS60547 standard; DNA;

21

Aminopeptidase P; XPNEP2; bradykinin receptor B1; ds; Human polymorphism associated DNA sequence #296.

/Kinin receptor B1; ds; BDKRB1;
Cl esterase inhibitor; ClNH; kallikrein
aprobp: com themes.

1:

tachykinin receptor B; TACRI; CI esterase inhibitor; CDNA; kallikrein KLK1; bradykinin receptor B2; BDKRB2; gene therapy; angiotensin converting enzyme 2; ACB2; protease inhibitor 4; PI4; polymorphism; haemangioma; tumour; sarcoma; Crohn's disease; trachoma; polymorphism; haemangioma; tumour; sarcoma; Crohn's disease; trachoma; cardiovascular disease; angina pectoris; hypertension; heart failure; myocardial infarction; ventricular hypertrophy; vascular disease; aneurysm; embolism; thrombosis; coronary artery disease; angioedaema; arteriosclerosis; atherosclerosis; hypersensitivity; sepsis; autoimmune disease; inflammatory arthritis; cancer; wound; viral infection; bacterial infection; fungal infection; COPD;

밁 S

Matches

17;

Conservative

0

Mismatches

0,

Gaps

0

2365 AGCTGCTCACAGAGAGGAGGG 2385

1 AGATCCAGACAGAGAGGAGGG

21

Query Match Best Local Similarity

0.3%;

Score 14.6; Pred. No. 1.

1.1e+03 DB 1; 4.

Length Indels

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CC 1 (KLH1), bradykinin receptor B2 (BDKBB2), angiotensin converting enzyme CC (ACE2) or protease inhibitor 4 (P14), comprising at least one CC polymorphic position. Also included are (1) a probe that hybridises to a CC polymorphic position as provided in the detailed summary of single CC nucleotide polymorphisms comprising additional 5 and 3 flanking genomic CC sequence; (2) analysing (M1) at least one nucleic acid sample comprising containing the sample from one or more polymorphic positions in a gene CC encoding a protein selected from the group above; (3) constructing (M2) applotypes using the genes comprising grouping at least two nucleic acids (4) identifying (M3) an individual at risk of developing a disorder CC using the polymorphic data; (5) a library of nucleic acids, each of which comprises one or more polymorphic positions within a gene encoding a comprising obtaining a nucleic acid sample, determining the number of protein selected from the group above; and (6) genotyping (M4) an comprises one or more polymorphic positions within a gene encoding a comprising obtaining a nucleic acid sample, determining the nucleid and composition with a known data set. The genes, (M1, M2, M3 and M4) and composition with a known data set. The genes, (M1, M2, M3 and M4) consposition with a sand catecting, diagnosing, treating, consposition with a known data set. The genes, (M1, M2, M3 and M4) and consposition with a known data set. The genes, (M2, M3 and M4) consposition, heart failure, myocardial infarction, ventricular converting and consposition, heart failure, myocardial infarction, ventricular consposits, and categors and/or atherosclerosis, and
                                                                                              artery disease, arteriosclerosis and/or atherosclerosis, and hypersensitivity reactions, sepsis, autoimmune diseases, inflammatory arthritis, cancer, wounds, viral, bacterial or fungal infection, Chronic obstructive pulmonary disease (COPD) and enterocolltis (many other diseases and disorders are listed in the specification). The polynucleotides are also useful for chromosome identification. Antibodies against the proteins may be utilised for immunophenotyping of cell lines and biological samples. The present sequence is included in the sequence listing but is not referred to anywhere else in the specification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           encoding aminopeptidase P (XPNE tachykinin receptor B1 (TACR1),
Sequence 21 BP; 8 A; 3 C; 9 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; Page 803; 977pp; English
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CC nucleic acid sequence at one or more polymorphic positions in a gene ce encoding a protein selected from the group above; (3) constructing (M2) cc haplotypes using the genes comprising grouping at least two nucleic acids (4) identifying (M3) an individual at risk of developing a disorder cusing the polymorphic data; (5) a library of nucleic acids, each of which comprises one or more polymorphic positions within a gene encoding a comman protein selected from the group above; and (6) genotyping (M4) an individual comprising obtaining a nucleic acid sample, determining the nucleitide present in at least one polymorphic position, and comparing at comprises one position with a known data set. The genes, (M1, M2, M3 and M4) cand compositions are useful for detecting, diagnosing, treating, cand compositions are useful for detecting, diagnosing, treating, corporate disease, trachomas, and cardiovascular diseases like angina pectoris, hypertension, heart failure, myocardial infarction, ventricular chypertension, theart failure, myocardial infarction, ventricular chypertensitivity reactions, sepsis, antervacelerosis and/or atherosclerosis, and mypersensitivity reactions, sepsis, autorimmune diseases, inflammatory cardinal the restrictive pulmonary disease (COPD) and enterocolitis (many other colorities and diseases are also useful for chromosome identification. Antibodies cardinate the nortering may be utilized for immune benotoring of call lines.
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                                                                                                                                                     Query Match
Best Local
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23-JAN-2001;
02-MAR-2001;
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                                                                                                                                                                                                                                                                                                     against the proteins may be utilised for immunophenotyping of cell lines and biological samples. The present sequence is included in the sequence listing but is not referred to anywhere else in the specification
                                                                                                                                                                                                                                               Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure; Page 726; 977pp; English
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21
                                                                                                                     l Similarity
17; Conserv
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TSUCHIHASHI Z.
HUI L.
   CCCCTTCTTGCTCTTTCTTTC
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Powell
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llarity 81.0%;
Conservative
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2001US-0263678P.
2001US-0273037P.
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Pred. No. 1.1e
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RESULT 1756
ABS60540
CC encoding aminopeptidase P (XPNEP2), bradykinin receptor B1 (BDKBE1), C1 esterase inhibitor (CLNH), kallikrein C1 (KLK1), bradykinin receptor B2 (BDKRB2), angiotensin converting enzyme C2 (ACE2) or protease inhibitor 4 (PI4), comprising at least one C2 polymorphic position. Also included are (1) a probe that hybridises to a C3 polymorphic position as provided in the detailed summary of single C3 (ACE2) or protease this comprising additional 5 and 3 flanking genomic C4 careful polymorphisms comprising additional 5 and 3 flanking genomic C5 eaquence; (2) analysing (M1) at least one nucleic acid sample comprising C6 obtaining the sample from one or more polymorphic positions in a gene C6 encoding a protein selected from the group above; (3) constructing (M2) the protein selected from the group above; (3) constructing (M2) captives using the genes comprising grouping at least two nucleic acids (4) identifying (M3) an individual at risk of developing a disorder C6 using the polymorphic data; (5) a library of nucleic acids, each of which C6 comprises one or more polymorphic positions within a gene encoding a midividual comprising obtaining a nucleic acid sample, determining the concleotide present in at least one polymorphic position, and comparing at least one position with a known data set. The genes, (M1, M2, M3 and M4) cand compositions are useful for detecting, diagnosing, treating,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New isolated nucleic acid with at least one polymorphic position, us for detecting, diagnosing and treating disorders such as angioedema, cancer, viral, bacterial or fungal infection, cardiovascular and
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23-JAN-2001; 2001US-0263678P
02-MAR-2001; 2001US-0273037P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              angiotensin converting enzyme 2; ACE2; protease inhibitor; polymorphism; haemangioma; tumour; sarror-cardiovascular disasson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure, Page 802; 977pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     autoimmune diseases.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to an isolated nucleic acid from a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2002-619265/66
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ABQ78254
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Best Local Similarity
Matches 17; Conserv
                                                                                                                                          Chimeric protein; major histocompatibility complex; non-MHC; MHC; intracellular messenger system; membrane bound protein; CD4; CD8; immunoglobulin; CD3 zeta chain; CD3 gamma chain; CD3 delta chain; CD3 sepsilon chain; CD3 zeta; cytotoxicity; signal transduction; gene therapy; mAB. 98.6; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The specification describes a method of screening for compounds, which are useful for prevention and/or treatment of atherosclerosis in humans. The method comprises the comparative detection of T cells carrying the invariant chain Valpha14-Jalpha281 in atherosclerotic lesions (or their mimics), in absence and presence of test compounds. The compounds modulate the activity (especially cytokine release) and migration of T cells. The migration of T cells into lesions is a good marker for infiltration of other immune system cells. The compounds are used for treatment and/or prevention of arteriosclerosis, particularly in combination with hypocholesterolemic agents. The present sequence
14-DEC-1990;
12-DEC-1991;
                                                                                                                                                                                                                         Primer used to amplify cDNA encoding VL region of mAB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 21
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                                                                                                                                                                                                                                                      05-NOV-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         represents a primer which is specific for Valphala
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                                      07-JUN-1995;
                                                                 18-JUN-2002
                                                                                           US6407221-B1
                                                                                                                    Homo sapiens
                                                                                                                                                                                                                                                                                                       ABQ78254 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (INSP ) INST PASTEUR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     26-APR-2002
                                                                                                                                                                                                                                                                                                                                                                                           4465 TGTGCCAAGTGCTGTGCTAAG 4485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2002-437817/47.
                                                                                                                                                                                                                                                                                                                                                                           21
                                                                                                                                                                                                                                                                                                                                                                         TGTGCAGCGTGCTGTGCTTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                compounds for treatment or ect on specific T cells in a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BP; 7
                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mempel M,
 90US-00627643
91WO-US009431
                                        95US-00475442
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Α.
                                                                                                                                                                                                                                                                                                                                                                                                                                      0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8 C; 4 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       French.
                                                                                                                                                                                                                                                                                                        ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gachelin
                                                                                                                                                                                                                                                                                                                                                                                                                             0,
                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 14.6;
Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 က
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                r prevention of atherosclerosis, fr atherosclerotic lesions or mimics.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Kourilsky
                                                                                                                                                                                                                                                                                                                                                                                                                                          .1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       멂
                                                                                                                                                                                                                                                                                                                                                                                                                                                       :
                                                                                                                                                                                                                                                                                                                                                                                                                              4
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ָש
                                                                                                                                                                                                                         98.6 light
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ronet
                                                                                                                                                                                                                                                                                                                                                                                                                             0;
                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                          chain
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RESULT 1755
ABS60278/c
ID ABS6027
XX ABS6027
XX ABS6027
XX D5-NOV-
XX Human p
XX Aminope
KW Aminope
KW KLK1; h
KW KLK1; h
KW Cardiot
KW Cardiot
KW Tangiote
KW Myocard
KW Tangiote
KW Myocard
KW Tangiote
KW Tangi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The specification describes a chimeric protein which has, in N- to C-
CC terminal direction, a non-major histocompatability complex (MHC)
CC restricted extracellular binding domain, transmembrane domain, and
CC ytoplasmic signal-transducing domain of protein that activates
CC intracellular messenger system. The chimeric protein is expressed as
CC membrane bound protein in the host cell which initiates signalling, when
CC the extracellular domain binds a ligand. The transmembrane domain is
CC obtained from a protein selected from CD4, CD8, immunoglobulin, CD3 zeta
CC chain, CD3 gamma chain, CD3 delta chain, and the CD3 epsilon chain. The
CC cytoplasmic signal-transducing domain is obtained from CD3 zeta. The
CC extracellular domain and the cytoplasmic domain are not naturally joined
CC together (or vice versa), and when the extracellular domain binds the
CC ligand, the chimeric DNA is expressed as a membrane bound protein in a
CC host cell under conditions suitable for expression, which initiates
CC signalling in the host cell. The chimeric protein induces cytotoxicity.
CC It is useful for signal transduction, and for the investigation of
CC particular pathways controlled by signal transduction. The chimeric
CC protein is also useful for gene therapy, The present sequence represents
CC aincle chain antibody-zeta chimeric receptors
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
Matches 17; Conser
                                                                                                                                                                                                                                                                        Aminopeptidase P; XPNEP2; bradykinin receptor B1; ds; BDKRB1; tachykinin receptor B1; TACR1; C1 esterase inhibitor; C1NH; kallikrein tachykinin receptor B2; BDKRB2; gene therapy; KLK1; bradykinin receptor B2; BDKRB2; gene therapy; angiotensin converting enzyme 2; ACE2; protease inhibitor 4; PI4; angiotensin converting enzyme 2; ACE2; protease inhibitor 4; PI4; polymorphism; haemangioma; tumour; sarcoma; Crohn's disease; trachoma, polymorphism; haemangioma; tumour; sarcoma; Crohn's disease; trachoma, cardiovascular disease; angina pectoris; hypertension; heart failure; myocardial infarction; ventricular hypertrophy; vascular disease; angioedaema; aneurysm; embolism; thrombosis; coronary artery disease; angioedaema;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 3; Fig 10; 45pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Novel chimeric protein useful for signal transduction, has a non-major histocompatability complex restricted extracellular binding domain, transmembrane domain, and cytoplasmic signal-transducing domain.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Capon DJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          09-DEC-1992;
                                                                                                                                                                        arteriosclerosis; atherosclerosis; hypersensitivity; sepsis;
autoimmune disease; inflammatory arthritis; cancer; wound;
viral infection; bacterial infection; fungal infection; COPD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human polymorphism
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABS60278 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     single
                                                                                                                                           Chronic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2002-616507/66.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (CELL-) CELL GENESYS INC. (REGC ) UNIV CALIFORNIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            264
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            chain antibody-zeta chimeric receptors
                                                                                                                                           obstructive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ccccccrcrcrcrcrrrrcrc 284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21 BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Weiss A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             92US-00988194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2
A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            associated DNA sequence #172.
                                                                                                                                           pulmonary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Irving BA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        12 C; 1 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 14.6;
Pred. No. 1.
                                                                                                                                           disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Roberts MR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1.1e+03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ϊ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Zsebo K;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        kallikrein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                   trachoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
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WO200261131-A2

domo sapiens

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RESULT 1752
AAS17789
ID AAS1778
                                                                        밁
                                                                                                S
                                                                                                                                                                                        CC This invention comprises a method of purifying double-stranded DNA from a CC solution containing the double-stranded DNA mixed with other components, CC comprising passing the solution through a support comprising a covalently CC coupled oligonucleotide capable of forming a triple helix with the double cranded DNA by hybridisation with a specific sequence present in the CC double-stranded DNA. The method is useful for purifying double-stranded CC DNA contained in a solution and mixed with other components. The new CC method is a ssimple, rapid and effective method for DNA purification, and CC makes it possible to obtain especially high purities with high yields. CC The method enables DNA to be purified from complex mixtures comprising CC other nucleic acids, proteins, endotoxins, nucleases and the like. The CC supports may be readily recycled, and the DNAs obtained display improved properties to pharmaceutical safety. Further, the method entails only one step contrary to prior art. The present sequence represents the (CTT)? CC oligonucleotide sequence which is capable of forming a triple helix with CC can be used in the DNA purification method of the invention
                                                                                                                                              Query Match
Best Local
                                                                                                                                Matches
 AAS17789 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Purifying double-stranded (ds) DNA from a solution containing dsDNA and other components, comprises passing the solution through a support comprising a covalently coupled oligonucleotide able to form a triple helix with the dsDNA.
                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2002-097772/13.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            26-MAY-2000; 2000US-00580923
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         25-MAY-2001; 2001WO-US017122
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ss; DNA purification; triple helix; plasmid purification; (CTT)7.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20-MAR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAS20479
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (AVET ) AVENTIS PHARMA SA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (CTT)7 Triple helix-forming oligonucleotide
                                                                                                                                           Local
                                                                                                   2800
                                                                        21
                                                                                                                                1 Similarity
17; Conserv
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                                                                                         AGGAAGGAGAAAATGAAGAAG 2820
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            standard;
                                                                                                                                                                                         21
                                                                                                                                                                                      BP; 0 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Page 4; 40pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Scherman D,
                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /rpt_1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            note= "CTT repeat type"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      *tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ocation/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DNA;
                                                                                                                                           0.3%;
                                                                                                                                                                                      7 C; 0 G; 14 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     type= TANDEM
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Wils
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                                                                                                                                            Score 14.6; DB 1;
Pred. No. 1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ָש
                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Blanche
                                                                                                                                                                                      0 U;
                                                                                                                                                                                        0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 'FI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Cameron
                                                                                                                                                          Length 21
                                                                                                                                Indels
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                                                                                                                              0
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ВP

SXEXEXEX SXXXXX

Atherosclerosis; T cell; Valphal4; Jalpha281; atherosclerotic lesion;

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RESULT 1753
ABL56787/c
                                                                                                                                                                                                                                                                                                                                                  Matches
                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local !
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to treating virsi or mailymous the modified T cells that express proteins comprising (in an N-terminal to C terminal direction) single chain antibody binding domains (that bind to viral or tumour antigens), transmembrane domains and cytoplasmic signal transducing domains. When the single chain antibody domain binds to the viral or tumour antigen on the cell, the modified T cells kill cells expressing the antigens. The modified T cells are used for treating malignant diseases and viral infection especially by, human immunodeficiency virus (HIV), cytomegalovirus, hepatitis C, hepatitis B, and mycobacterium avium. The present sequence is a PCR primer used to amplify a nucleic acid encoding antibody mAb 98.6 light chain variable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 14-DEC-1990;
12-DEC-1991;
09-DEC-1992;
05-MAY-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Capon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Treating viral infections, e.g. HIV, and malignancies using T cells that express proteins which bind virus/tumor antigens and kill cells presenting the antigens, via the activity of a cytoplasmic signal
                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    anti-HIV; human immunodeficiency virus infection; viral disease; malignant disease; T cell; single chain antibody; cytomegalovirus; hepatitis C; hepatitis B; mycobacterium avium.
  Primer which
                                             20-AUG-2002
                                                                                             ABL56787;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 3; Fig 10; 38pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2002-074399/10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US6319494-B1
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                                                                                                                                        ABL56787 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         transducing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    07-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20-NOV-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human mAb98.6 light chain variable region PCR primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     12-MAR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (CELL-) CELL GENESYS INC.
                                                                                                                                                                                                                                                                                                       264 CCCCCCCTCTCTCTTTCTC 284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2
                                                                                                                                                                                                                                                                                                                                                  l Similarity
17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            mAb98.6 light chain;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Weiss A, Trving
                                                                                                                                                                                                                                                                                                                                                                                                                                              B₽;
                                                                                                                                                                                                                                                                                                                                                     Conservative
is specific for Valphal4.
                                             (first entry)
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92US-00988194.
94US-00238405.
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                                                                                                                                                                                                                                                                                                                                                                                                                                           A; 12 C; 1 G; 6 T; 0 U; 0 Other;
                                                                                                                                        DNA;
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                                                                                                                                        21
                                                                                                                                           ВP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BA,
                                                                                                                                                                                                                                                                                                                                                  Score 14.6; DB 1;
Pred. No. 1.1e+03;
0; Mismatches 4;
                                                                                                                                                                                                                                                            21
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Sequence 21

BP; 4 A;

10 C;

5 G;

2 T; 0 U; 0 Other;

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                                                            Query Match
Best Local S
Matches 17
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                       Composition for treating hormone-regulated cancer, particularly of prostate or breast, comprises oligonucleotide antisense to insulin-like growth factor binding protein-2.
                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2002-339861/37.
                                                                                                                                                                  of hormone-regulated tumours, particularly of breast or prostate, to the hormone-independent state, to delay metastatic progression to the bone of IGF-1-sensitive cancers and to treat hormone-responsive cancers by inducing apoptosis, after hormonal withdrawal. The present nucleic acid sequence represents one of a collection (ABK70313-ABK70375) of antisense IGFBP-2-oligodeoxynucleotides (ODN) that were used in the invention for
                                                                                                                                                                                                                                                          The present invention relates to a new composition for treating hormone-regulated cancer. The composition comprises an antisense oligonucleotide that inhibits expression of IGFBP-2 (insulin-like growth factor binding protein-2). The molecules of the invention are used to delay progression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  13-SEP-2001; 2001WO-US028748.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Synthetic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABK70359
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ABK70359 standard; DNA; 21
                                                                                                                        Sequence 21
                                                                                                                                                     prostate and other endocrine tumour therapy
                                                                                                                                                                                                                                                                                                                                            Claim 3; Page 13; 36pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  14-SEP-2000; 2000US-0232641P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                21-MAR-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          insulin-like growth factor binding protein-2; hormone-regulated tumour;
breast cancer; prostate cancer; IGF-1-sensitive cancer; apoptosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (UYBR-) UNIV BRITISH COLUMBIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           normone-responsive cancer; hormonal withdrawal; oligodeoxynucleotide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Hormone-regulated cancer; antisense oligonucleotide; IGFBP-2;
                             4009 TCCCGCATCACGGCAAGCACC 4029
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4009 TCCCGCATCACGGCAAGCACC 4029
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             endocrine
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                                                          l Similarity
17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        antisense
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Satoshi K,
                                                                                                                        BP; 4 A; 10 C; 5 G; 2 T; 0 U; 0 Other;
                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      IGFBP-2-oligodeoxynucleotide (ODN) #47.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       entry)
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                                                                       0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           therapy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Nelson C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ВP
                                                          0;
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                                                                         Score 14.6;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 14.6; DB 1; Length 21; Pred. No. 1.1e+03;
                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Rennie
                                                                          .1e+03
                                                                                         DB 1;
                                                                                       Length 21
                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
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RESULT 1750

RESULT 1751 AAS20479/c

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                                                                                                                                                This invention comprises a method of purifying double-stranded DNA from a solution containing the double-stranded DNA mixed with other components, comprising passing the solution through a support comprising a covalently coupled oligonucleotide capable of forming a triple helix with the double stranded DNA by hybridisation with a specific sequence present in the double-stranded DNA. The method is useful for purifying double-stranded DNA contained in a solution and mixed with other components. The new method is a simple, rapid and effective method for DNA purification, and makes it possible to obtain especially high purities with high yields. The method enables DNA to be purified from complex mixtures comprising other nucleic acids, proteins, endotoxins, nucleases and the like. The supports may be readily recycled, and the DNAs obtained display improved properties to pharmaceutical safety. Further, the method entails only one step contrary to prior art. The present sequence represents a DNA hybridisation sequence used to prepare a DNA purification column to purify the plasmid pXL2727-2 using the method of the invention
                                                                         Query Match
Best Local
                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Purifying double-stranded (ds) DNA from a solution containing dsDNA and other components, comprises passing the solution through a support comprising a covalently coupled oligonucleotide able to form a triple helix with the dsDNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20-MAR-2002
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                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                          Example 8.2; Page 22; 40pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2002-097772/13.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              25-MAY-2001; 2001WO-US017122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO200192511-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                hybridisation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             26-MAY-2000; 2000US-00580923
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   repeat_unit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ss; DNA purification; triple helix; plasmid purification;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (AVET ) AVENTIS PHARMA SA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (GAA)7 hybridisation
                             2802 GAAGGAGAAAATGAAGAAGGA 2822
                                                                          Similarity
                                                                                                                          21
 GAAGAAGAAGAAGAAGAA
                                                                                                                      BP; 14 A; 0 C; 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Scherman D,
                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               sequence; pXL2727-2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /rpt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ocation/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         note= "GAA repeat type"
                                                                         0.3%; Score 14.6; DB 1;
81.0%; Pred. No. 1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     type= TANDEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sequence
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                                                                                                                        G; 0 T; 0 U;
 21
                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Blanche F,
                                                                                                                           0 Other;
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                                                                                         Length 21;
                                                             Indels
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ABK70340
IID ABK70
XX
AC ABK7
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DT 15-J
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HORM
KW HORM
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CC Therefore the method can be used to detect collagen gene alterations which affect either the primary sequence of a collagen protein chain, splicing of the mRNA encoding such chains or regulation of the invention of the genes encoding such chains. The present sequence is a PCR primer which amplifies a nucleic acid from a collagen gene of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 1747
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                                                                                                           prostate or breast, comprises or growth factor binding protein-2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Hormone-regulated cancer; antisense oligonucleotide; IGFBP-2; insulin-like growth factor binding protein-2; hormone-regulated tumour; breast cancer; prostate cancer; IGF-1-sensitive cancer; apoptosis; hormone-responsive cancer; hormonal withdrawal; oligodeoxynucleotide;
                                                                                                                                                          Composition for treating hormone-regulated cancer, particularly of prostate or breast, comprises oligonucleotide antisense to insulin-like
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               14-SEP-2000; 2000US-0232641P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                13-SEP-2001; 2001WO-US028748
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Synthetic antisense IGFBP-2-oligodeoxynucleotide (ODN)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local
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17; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                Satoshi K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BP; 8 A;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             therapy; ss
                                                                                                                                                                                                                                                                                                                                                                            Nelson C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21
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Pred. No. 1
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                                                                                                                                                                                                                                                                                                                                                                                Rennie PS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1.1e+03;
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Claim 3; Page 12; 36pp; English

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ARESULT 1748
ABK70315
ID ABK70311
XX ABK7031
XX Synthet
XX Synthet
XX Hormone
KW Hormone
KW Hormone
KW Hormone
KW ODN; en
XX Synthet
XX Synthet
XX (UYBR-)
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Best Local
                         The present invention relates to a new composition for treating hormone-regulated cancer. The composition comprises an antisense oligonucleotide that inhibits expression of IGFBP-2 (insulin-like growth factor binding protein-2). The molecules of the invention are used to delay progression of hormone-regulated tumours, particularly of breast or prostate, to the hormone-independent state, to delay metastatic progression to the bone of IGF-1-sensitive cancers and to treat hormone-responsive cancers by inducing apoptosis, after hormonal withdrawal. The present nucleic acid sequence represents one of a collection (ABK70313-ABK70375) of antisense IGFBP-2-oligodeoxynucleotides (ONN) that were used in the invention for prostate and other endocrine tumour therapy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Composition for treating hormone-regulated cancer, particularly of prostate or breast, comprises oligonucleotide antisense to insulin-like growth factor binding protein-2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Hormone-regulated cancer; antisense oligonucleotide; IGFBP-2; insulin-like growth factor binding protein-2; hormone-regulated tumour; breast cancer; prostate cancer, IGF-1-sensitive cancer; apoptosis; hormone-responsive cancer; hormonal withdrawal; oligodeoxynucleotide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The present invention relates to a new composition for treating hormone-regulated cancer. The composition comprises an antisense oligonucleotide that inhibits expression of IGFBP-2 (insulin-like growth factor binding protein-2). The molecules of the invention are used to delay progression of hormone-regulated tumours, particularly of breast or prostate, to the hormone-independent state, to delay metastatic progression to the bone of IGF-1-sensitive cancers and to treat hormone-responsive cancers by inducing appticals, after hormonal withdrawal. The present nucleic acid sequence regresents one of a collection (ABK70313-ABK70375) of antisense IGFBP-2-oligodeoxynucleotides (ODN) that were used in the invention for
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Synthetic antisense IGFBP-2-oligodeoxynucleotide (ODN)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (UYBR-) UNIV BRITISH COLUMBIA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                       Page 12;
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RESULT 1745
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    protein OmpA. The OmpA protein can be expressed by standard recombinant methodology. An antibody (Ab) specific to the OmpA polypeptide is useful for diagnosting an infection by R. anatipestifer in an avian species. The OmpA gene and protein are useful for the preparation of vaccines and serodetective diagnostic assays. A vaccine composition comprising the OmpA gene, protein or Ab is useful for effective immunization of poultry against R. anatipestifer infection, especially septicemia anserum exception. Sequences AC85124-139 represent PCR primers used for
       The invention relates to Detecting a collagen gene alteration associated with a pathological condition in a human subject by obtaining from the subject a sample nucleic acid containing a portion of at least 15 consecutive nucleotides of the segment of the COLLA1 gene extending in the 5' to 3' direction from 78 nucleotides of intron 27 located adjacent exon 28 through the 3' end of intron 51 where the portion contains an
                                                                                                                                  Detecting collagen gene alteration, useful for diagnosing osteoporosis, multiple epiphyseal dysplasia, osteogenesis imperfecta, shortness of stature and low bone density in humans.
                                                                                                                                                                                                                                                                                       (UYAL-)
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13-MAR-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human COL9A3
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                                                                                                           Claim
                                                                                                                                                                                          WPI; 2001-432201/46.
                                                                                                                                                                                                                                                Prockop DJ,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        shortness of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       osteoporosis; multiple
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; collagen;
                                                                                                                                                                                                                                   Westerhausen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAS22387 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          amplifying the R. anatipestifer OmpA gene
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0.3%;
llarity 81.0%;
Conservative
                                                                                                                                                                                                                  Spotila LD, Deltas CD, Sereda L;
Larson A, Pack M, Colige A, Early
Annunen S, Pihlajamaa T, Vuoristo
                                                                                                                                                                                                                                                                          ALLEGHENY HEALTH
JEFFERSON THOMAS
OULU.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PCR
                                                                                                        25; 617pp;
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94US-00212322.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COL1A1; COL1A2; COL9A1; COL9A2; COL9A3; ss; ltiple epiphyseal dysplasia; osteogenesis imperfecture; low bone density; gene therapy; PCR primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            primer 2 for Exon 22.
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                                                                                                         English.
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Pred. No. 1
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and second site,

The invention relates to Detecting a collagen gene alteration with a pathological condition in a human subject by obtaining

from associated

with a pathological condition in

Detecting collagen gene alteration, useful for diagnosing osteoporosis, multiple epiphyseal dysplasia, osteogenesis imperfecta, shortness of stature and low bone density in humans.

Claim 8;

Fig

25; 617pp;

English.

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RESULT 1746
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ID AAS2238
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Therefore the method can be used to detect collagen gene alterations which affect either the primary sequence of a collagen protein chain, splicing of the method can be used to categories as portion of the genes encoding such chains or regulation of expression of the genes encoding such chains or regulation of expression of the genes encoding such chains or regulation of expression of the genes encoding such chains or regulation of expression of the invention
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; collagen; COL1A1; COL1A2; COL9A1; COL9A2; COL9A3; ss; osteoporosis; multiple epiphyseal dysplasia; osteogenesis im shortness of stature; low bone density; gene therapy; PCR pr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 21 BP; 8 A; 7 C; 4 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                   Westerhausen
Ala-Kokko L,
                                                                                                                                                                                                  Prockop DJ,
                                                                                                                                                                                                                                                                                             03-DEC-1991;
13-MAR-1994;
                                                                                                                                                                                                                                                                                                                                             03-OCT-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAS22385;
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                                                                                                                                      WPI; 2001-432201/46.
                                                                                                                                                                                                                                                                                                                                                                                                           US6265157-B1
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Larson A, Pack M, Colige A, Early
Annunen S, Pihlajamaa T, Vuoristo
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JEFFERSON THOMAS
OULU.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PCR primer 2 for Exon 21.
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                                                                                                                                                                                                                                                                                                            9108-00803628.
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₹P;
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RESULT 1743
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                                                                                                                                                                                                                                                                                                                                                                                                                                   The sequences given in AAC85321-40 and AAC85342-51 are primers which were used in the construction of baculovirus expression vectors for the expression of the fusion protein PARPIA/PARP2B. This protein contains amino acids 1-662 of hPARPI fused upstream of amino acids 230-533 of hPARP2. The fusion protein coding sequence is given in AAC85341. The protein of the invention, hPARP2, causes the covalent addition of polymers of ADP-ribose to protein targets. hPARP2 activity is induced in many instances of oxidative stress or during inflammation where there is direct damage to the DNA. hPARP2 may be used to identify antagonists which may be used to treat a human having a disorder mediated by PARP2 activity, such as, inflammatory, neurological, cardiovascular, or neoplastic tissue growth disorders. hPARP2 and antibodies to it, can also be used to itssue growth disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     chronic glomerulonephritis; inflammatory bowel disease; Crohn's disease; ulcerative colitis; necrotizing enterocolitis; inflammatory dermatosis; contact dermatitis; atopic dermatitis; psoriasis; urticaria; fever; myalgia; meningitis; encephalitis; Sjogren's syndrome; alcoholic hepatitis; bacterial pneumonia; hypovolemic shock; Type 1 diabetes mellitus; hypersensitivity; leukocyte dyscrasia; thermal injury; cytokine-induced toxicity; expressed sequence tag; EST; RACE; PCR; amplify; primer; polymerase chain reaction; ss
JP3116049-B1
                             Sus scrofa
                                                                                                                                   06-APR-2001
                                                                                                                                                                                           AAF27062 standard; DNA;
                                                                       Restriction fragment
                                                                                                    Pig c-KIT
                                                                                                                                                                 AAF27062;
                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New human poly(ADP-ribose) polymerase for treating inflammatory, neurological, cardiovascular, or neoplastic tissue growth disorcas, arthritis, encephalitis, myocardial ischemia, and leukocyte
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Christenson E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       16-JUN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   16-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (ICOS-) ICOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21-DEC-2000
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                                                                                                                                                                                                                                                                                                      2892
                                                                                                                                                                                                                                                                                                                                1 Similarity
17; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3; Page
                                                                                                                                                                                                                                                                        GAGCACCCCCTGGACCAGCAC 21
                                                                                                                                                                                                                                                                                                    GAGTACCTGCTAGACCAGCAC
                                                         C-KIT
                                                                                                                                                                                                                                                                                                                                                                                             21 BP; 5
                                                                                                     gene
                                                                                                                                                                                                                                                                                                                                                                                                                        diagnose these
                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2000WO-US016629
                                                                                                                                   (first
                                                        gene;
                                                                                                  PCR primer,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       99US-0139543P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      79; 129pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Demaggio AJ,
                                                                                                                                                                                                                                                                                                                                                                                            A; 10 C; 5 G; 1 T; 0 U;
                                                                                                                                   entry)
                                                                                                                                                                                                                                                                                                                                              0.3%;
                                                      length polymorphism; PCR primer; ss.
                                                                                                                                                                                                21
                                                                                                                                                                                                                                                                                                                                                                                                                           conditions
                                                                                                    SEQ ID NO:19.
                                                                                                                                                                                                ₽P
                                                                                                                                                                                                                                                                                                                                0,
                                                                                                                                                                                                                                                                                                                                              Score 14.6;
Pred. No. 1.
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                                                                                                                                                                                                                                                                                                  2912
                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                .1e+03
                                                                                                                                                                                                                                                                                                                                                            DB 1;
                                                                    big
                                                                                                                                                                                                                                                                                                                                                                                             0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mcelligott DL;
                                                                       breed identification; RFLP;
                                                                                                                                                                                                                                                                                                                                                              Length 21;
                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  disorders,
                                                                                                                                                                                                                                                                                                                                0,
                                                                                                                                                                                                                                                                                                                                Gaps
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RESULT 1744
AAC85125
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                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to the use of restriction fragment length polymorphism (RFLP) analysis to distinguish between various breeds of pig. RFLP analysis is carried out on the melanocyte-stimulating hormone receptor gene (MC1-R gene; ARF27046-ARF27049) and the c-KIT gene (ARF27066-AAF27076). The method of the invention is used for distinguishing between coloured pig breeds including Hampshire, Berkshire, Meishan, Monkai and burcock breeds, and between white pig breeds, including Landrace and large Yorkshire breeds. The method can distinguish between a wide variety of pig breeds. The present sequence represents a pig c-KIT gene PCR primer used in an exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11-DEC-2000
                                                                                                                                                                                                                 OmpA; outer septicemia a
                                                                                                                                                                                                                                                  R. anatipestifer OmpA gene amplifying primer 2.
                                 WPI; 2001-138355/14.
                                                                                                   14-JUL-1999;
                                                                                                                        14-JUL-1999;
                                                                                                                                               18-JAN-2001.
                                                                                                                                                                      WO200104317-A1
                                                                                                                                                                                            Riemerella anatipestifer
                                                                                                                                                                                                                                                                           08-MAY-2001
                                                                                                                                                                                                                                                                                                AAC85125;
                                                                                                                                                                                                                                                                                                                       AAC85125 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Distinguishing various polymorphism analysis o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2001-150038/16.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11-JUN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11-JUN-1999;
                                                                              (MOLE-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (NORQ ) NORIN SUISANSHO CHIKUSAN SHIKENJOCHO.
(NORI-) SH NORIN SUISAN SENTANGIJUTSU SANGYO SHINKO CENTRE
(MIHA/) MIHASHI T.
                                                                                                                                                                                                                                                                                                                                                                                                    2875
                                                                                                                                                                                                                                                                                                                                                                                μ
                                                                                                                                                                                                                                                                                                                                                                                                                          15; Conserv
                                                                              INST MOLECULAR AGROBIOLOGY
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                                                                                                                                                                                                                                                                                                                                                                                                CCATTATCTCTGACCCTGAGT 2895
                                                                                                                                                                                                                                                                                                                                                                                CCAATACCTCTGAACCTTAGT 21
                                                                                                                                                                                                                   anserum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Page 22; 42pp;
                                                                                                                                                                                                                             membrane
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BP; 6 A;
                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                        99WO-SG000075
                                                                                                   99WO-SG000075
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                                                                                                                                                                                                                 ne protein; avian;
exsudativa; antiba
                                                                                                                                                                                                                                                                                                                                                                                                                                      0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       7 C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   s pig breeds comprises restriction fragment length of pig melanocyte-stimulating hormone receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Japanese
                                                                                                                                                                                                                                                                                                                       ВP
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Pred. No. 1.1e
0; Mismatches
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                                                                                                                                                                                                                  antibacterial;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
                                                                                                                                                                                                                  immunization;
acterial; PCR |
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                                                                                                                                                                                                                                                                                                                                                                                                                                      .1e+03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 1;
                                                                                                                                                                                                                 primer; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length
                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                             vaccine;
                                                                                                                                                                                                                                                                                                                                                                                                                          0
                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
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New OmpA gene of Riemerella anatipestifer for for diagnosing septicemia anserum exsudativa of

r production of vaccines of avian species.

AAH40569 standard;

DNA;

21 BP

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AAH40569/c
ID AAH409
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                                                                                                                                                                                                                   CC includes kits for determining the presence of a SNP, using the CC includes kits for determining the presence of a SNP, using the CC oligonucleotides of the invention. The PCR primers are used to amplify a CC SNP flanking sequence, the SNPE primer is used as a genotyping primer. CC The oligonucleotides are useful for genotyping a nucleic acid sample by CC performing a single-nucleotide primer extension reaction. The CC oligonucleotides are useful for determining the presence, absence or CC oligonucleotides are useful for determining the presence, absence or CC identity of a SNP and for genotyping nucleic acid samples, for e.g. to CC assess by association analysis the genotype of an individual or group of CC individuals, having a pathological phenotypic trait suspected of being CC aused by one or more SNPs. Phenotypic traits include diseases e.g. CC agammaglobulinaemia, diabetes insipidus, Lesch-Nyhan syndrome, muscular CC disease of include symptoms of or susceptibility to multifactorial CC traits also include symptoms of or susceptibility to multifactorial CC disease of which a component is or may be genetic such as autoimmune CC diseases, including, rheumatoid arthritis, multiple sclerosis, CC inflammation, cancer, nervous system diseases and infection by pathogenic CC microorganism. The method is also useful in forensic investigations and CC microorganism. The method is also useful in forensic investigations and CC for a human SNP containing NNA sequence
                                                                                     Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequences AAH37205 - AAH40944 represent PCR primers, single nucleotide primer extension (SNPE) primers, and the sequences of regions flanking sites of single nucleotide polymorphisms SNPs. The present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New genotyping oligonucleotide, useful for detecting the presence, absence or identity of single polynucleotide polymorphism in a nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SNPE; genotyping; agammaglobulinaemia; diabetes insipidus; cancer; Lesch-Nyhan syndrome; muscular dystrophy; familial hypercholesterolaemia; polycystic kidney disease; osteogenesis imperfecta; autoimmune disease; acute intermittent porphyria; rheumatoid arthritis; multiple sclerosis;
                                                                                                                                                                   Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 1; Page 67; 83pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2001-290930/30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Single nucleotide polymorphism; SNP; single nucleotide primer extension;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SNP specific upper PCR primer SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           14-AUG-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (ORCH-) ORCHID BIOSCIENCES INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        15-OCT-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               13-OCT-2000; 2000WO-US028436
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21
                                       73
                                                                                                      Similarity
                                     CTAGGCCATGCTTCTTCAGAA 93
                                                                                Conservative
                                                                                                                                                                 BP; 5 A; 4 C; 8 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                             SNP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 forensic investigation; paternity analysis; PCR primer; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        99US-0160096P.
                                                                                                                                                                                                        containing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pohl M;
                                                                                                    81.0%;
                                                                                                                        0.3%;
                                                                                                                                                                                                        DNA sequence
                                                                                0;
                                                                                                    Score 14.6; DB 1;
Pred. No. 1.1e+03;
                                                                              Mismatches
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                                                                                                                          DB 1;
                                                                                                                     Length 21;
                                                                                Indels
                                                                                0;
                                                                                Gaps
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RESULT 1741
AAI69664
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AAC85339
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.3%, Best Local Similarity 81.0%, Matches 17, Conservation
                                         Human; poly(ADP-ribose) polymerase; hPARP2; oxidative stress; ARDS; inflammation; ischaemic stroke; hemorrhagic shock; myocardial ischemia; inflammation; cerebral vasospasm; rheumatoid arthritis; osteoarthritis; gouty arthritis; spondylitis; Behcet's disease; sepsis; septic shock; endotoxic shock; gram negative sepsis; gram positive sepsis; trauma; toxic shock syndrome; multiple organ injury syndrome; vasculitis; toxic shock syndrome; multiple organ injury syndrome; vasculitis; hemorrhage; conjunctivitis; uveitis; thyroid-associated ophthalmopathy; eosinophilic granuloma; asthma; chronic bronchitis; allergic rhinitis; phalmonary sarcoidosis; pleurisy; alveolitis; pneumonia; myocardium; pulmonary sarcoidosis; pleurisy; alveolitis; pneumonia; myocardium; bronchiectasis; pulmonary oxygen toxicity; keloid formation; brain;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 21 BP; 3 A; 3 C; 8 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention relates to a novel nucleotide sequence and protein of a new hepatitis E virus HEV-T1 and the application of the nucleotide sequence and protein in diagnosing, preventing and treating hepatitis. The present sequence is a PCR primer described in the exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2001-550442/62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Wang Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    27-JUN-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Hepatitis E virus; HEV-T1; hepatitis infection; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Hepatitis E virus HEV-T1 sequence related PCR primer #29
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              scar tissue formation; atherosclerosis; systemic lupus erythematosus; autoimmune thyroiditis; multiple sclerosis; Reynaud's syndrome;
                                                                                                                                                                                                                                                                                          29-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 1; Page 14 (Disclosure); 34pp; Chinese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Hepatitis E virus gene sequence and its application
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  23-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  23-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CN1300771-A.
                                                                                                                                                                                                                                                        cDNA primer for PARP1A/PARP2B, PARP2U2 REV.
                                                                                                                                                                                                                                                                                                                                                            AAC85339 standard; cDNA; 21 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (CHME-) CHINESE MEDICINE & BIOLOGIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2076 GCCGTGGGGGTGTCGTTCATG 2096
                                                                                                                                                                                                                                                                                                                                                                                                                                                GCCGTAGGGTTGTCATTGATG 21
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                                                                                                                                                                                                                                                                                        (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 14.6;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .1e+03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 21;
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RESULT 1738
AAF96094
ID AAF9609
XX AAF9609
XX AAF9609
XX Human g
XX Human;
KW polymor
KW polymor
KW myocard
KW polymor
XX MOZ0011
XX WOZ0011
XX
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10-SEP-1999;
26-JUL-2000;
16-AUG-2000;
                        The present invention provides a method of diagnosing a vascular disease in an individual, involving determining the sequence at various polymorphic sites within the human thrombospondin 1 and thrombospondin 4 genes. The sequences at a number of polymorphic sites are also provided in the specification. In particular, the method can be used in the diagnosis of atherosclerosis, myocardial infarction, coronary heart disease, stroke, peripheral vascular disease, venous thromboembolism and pulmonary embolism. Single nucleotide polymorphisms (SNPs) are also useful in forensics, paternity testing, genetic analysis and phenotype correlations to diseases. The present sequence is an example of one of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         pulmonary embolism. Single nucleotide polymorphisms (SNPs) are also useful in forensics, paternity testing, genetic analysis and phenoty correlations to diseases. The present sequence is an example of one the human gene SNPS shown in the specification
                                                                                                                                                                                                                                                                                                                                                                               Nucleic acids comprising single nucleotide polymorphisms, useful in applications such as forensics, paternity testing, medicine, genetic analysis and phenotype correlations to diseases such as diabetes and atherosclerosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (WHED )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                07-SEP-2000;
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Variation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human; variant thrombospondin 1; variant thrombospondin 4; SNP; polymorphism; vascular disease; coronary artery disease; forensics; myocardial infarction; atherosclerosis; stroke; venous thrombosmbolism; pulmonary embolism; paternity test; ds.
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                                                                                                                       The invention relates to oligonucleotides used in a method for the detection of the pseudorables virus in a tissue sample from an animal, particularly a pig. The method involves the detection of a 674 bp fragment of the gII gene (AAH78656) in a purified nucleic acid sample derived from the tissue via a nested PCR reaction using primers selected from AAH78657-AAH78666. Pseudorables virus is a herpes virus found primarily in the swine population, and in its active state causes a disease that is generally fatal to young pigs. The gII gene encodes a glycoprotein that is essential for pseudorables virus replication in the host. The present sequence represents an inner PCR primer which anneals to nucleotides 836-856 of the pseudorables virus gII gene sequence and which is claimed for use in the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      gII gene; herpes virus; PCR primer; optimised nested PCR reaction; gII g pseudorables virus detection.
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                                                                                                                                                                                                                                                                                                                Nested polymerase chain reaction (PCR) for detecting the presence or absence of the pseudorabies virus by detecting a highly sensitive recof the pseudorabies virus gII gene in a tissue nucleic acid sample.
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26-JUL-2000;
16-AUG-2000;
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                                                                                                                                                                                                   Nucleic acids comprising single nucleotide polymorphisms, useful in applications such as forensics, paternity testing, medicine, genetic analysis and phenotype correlations to diseases such as diabetes and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 21
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The present invention provides a method of diagnosing a vascular in an individual, involving determining the sequence at various polymorphic sites within the human thrombospondin 1 and thrombosp

Page 181;

242pp;

English.

The present invention provides a method of diagnosing a vascular disease in an individual, involving determining the sequence at various polymorphic sites within the human thrombospondin 1 and thrombospondin 4 genes. The sequences at a number of polymorphic sites are also provided in the specification. In particular, the method can be used in the diagnosis of atherosclerosis, myocardial infarction, coronary heart disease, stroke, peripheral vascular diseases, venous thromboembolism and

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10-SEP-1999;
26-JUL-2000;
16-AUG-2000;
                                                                                                                                                                                                                                           Nucleic acids comprising single nucleotide polymorphisms, useful in applications such as forensics, paternity testing, medicine, genetic analysis and phenotype correlations to diseases such as diabetes and atherosclerosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; variant thrombospondin 1; variant thrombospondin 4; polymorphism; vascular disease; coronary artery disease; froyocardial infarction; atherosclerosis; stroke; venous thrombospondin 4;
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Nucleic acids comprising single applications such as forensics,
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16-AUG-2000;
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                                applications such analysis and pheno
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                                                                                                                                                                                                                                                                                                                                                                                                                                                Human gene single nucleotide polymorphism #1443.
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                                                                                                                                                                                                                                                                                                                                                                                    pulmonary embolism;
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17; Conserv
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                                 acids comprising single nucleotide polymorphisms, useful in tions such as forensics, paternity testing, medicine, genetics and phenotype correlations to diseases such as diabetes and
                                                                                                                                               WHITEHEAD INST BIOMEDICAL
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2000US-0225724P.
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                                                                                                                                                                                                                                                                                              /standard_name= "single nucleotide polymorphism"
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Example; Page 146; 242pp; English

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AAF96061/c
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Best Local Similarity
Matches 17; Conserv
                       10-SEP-1999;
26-JUL-2000;
16-AUG-2000;
                                                                                                                                                                                                                                                                Human; variant thrombospondin 1; variant thrombospondin 4; SNP; polymorphism; vascular disease; coronary artery disease; forensics; myocardial infarction; atherosclerosis; stroke; venous thromboembolism; pulmonary embolism; paternity test; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention provides a method of diagnosing a vascular disease in an individual, involving determining the sequence at various polymorphic sites within the human thrombospondin 1 and thrombospondin 4 genes. The sequences at a number of polymorphic sites are also provided in the specification. In particular, the method can be used in the diagnosis of atherosclerosis, myocardial infarction, coronary heart disease, stroke, peripheral vascular diseases, venous thrombosmbolism and pulmonary embolism. Single nucleotide polymorphisms (SNPs) are also useful in forensics, paternity testing, genetic analysis and phenotype correlations to diseases. The present sequence is an example of one of the human gene SNPS shown in the specification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Nucleic acids comprising single nucleotide polymorphisms, useful in applications such as forensics, paternity testing, medicine, genetic analysis and phenotype correlations to diseases such as diabetes and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 21
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16-AUG-2000; 2000US-0225724P.
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(WHED ) WHITEHEAD INST BIOMEDICAL RES
                                                                                 07-SEP-2000; 2000WO-US024503
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                                                                                                                                         WO200118250-A2
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                       99US-0153357P.
2000US-0220947P.
2000US-0225724P.
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Pred.
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No. 1.1e+03;
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RESULT 1733
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Matches 17
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                                                                        10-SEP-1999;
26-JUL-2000;
16-AUG-2000;
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                                               WHED )
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17; Conserv
                                    WHITEHEAD INST BIOMEDICAL MILLENNIUM PHARM INC.
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                                                                                                                                                                                                                                                                                              embolism; paternity test; ds.
                                                                                                                                                                                                                                                                                                          iant thrombospondin 1; variant thrombospondin 4;
sm; vascular disease; coronary artery disease; fo
infarction; atherosclerosis; stroke; venous thrombospondin 1;
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2000US-0220947P.
2000US-0225724P.
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Best Local S
Matches 17
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                                                                                                                                                                                                                                    Human
                                                                                                                                Homo
                                                                                                                                                                        Human; variant thrombospondin 1; variant thrombospondin 4; SNP; polymorphism; vascular disease; coronary artery disease; forensics; myocardial infarction; atherosclerosis; stroke; venous thromboembolism;
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                                                                                                                                                           pulmonary embolism; paternity test; ds.
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Pred. No. 1.1e+03;
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Best Local (
                                                                                                                                                                                                                                                                                                                               The present invention provides a method of diagnosing a vascular disease in an individual, involving determining the sequence at various polymorphic sites within the human thrombospondin 1 and thrombospondin 4 genes. The sequences at a number of polymorphic sites are also provided in the specification. In particular, the method can be used in the diagnosis of atherosclerosis, myocardial infarction, coronary heart disease, stroke, peripheral vascular diseases, venous thromboembolism and pulmonary embolism. Single nucleotide polymorphisms (SNPs) are also useful in forensics, paternity testing, genetic analysis and phenotype correlations to diseases. The present sequence is an example of one of the human gene SNPS shown in the specification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Nucleic acids comprising single nucleotide polymorphisms, useful in applications such as forensics, paternity testing, medicine, genetic analysis and phenotype correlations to diseases such as diabetes and
                                  06-JUN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10-SEP-1999;
26-JUL-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       07-SEP-2000; 2000WO-US024503
                                                                 AAF96063;
                                                                                               AAF96063 standard; DNA;
                                                                                                                                                                                                                                                                                                      Sequence 21 BP; 6 A; 9 C; 5 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example; Page 153; 242pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Lander
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       16-AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (WHED ) WHITEHEAD INST BIOMEDICAL (MILL-) MILLENNIUM PHARM INC.
                                                                                                                                                                                                            3831 ACCCCGGTCAGCTCCCAGGCC 3851
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                                                                                                                                                                            ۲
                                                                                                                                                                                                                                                        Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; 99US-0153357P.
; 2000US-0220947P.
; 2000US-0225724P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gargill M,
                                                                                                                                                                                                                                         Conservative
                                (first entry)
nucleotide polymorphism #824.
                                                                                                                                                                                                                                                        0.3%;
                                                                                               21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ireland JS,
                                                                                               ВÞ
                                                                                                                                                                                                                                         0
                                                                                                                                                                                                                                                                     Score 14.6;
                                                                                                                                                                                                                                                          Pred.
                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RES
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                                                                                                                                                                                                                                                        1.1e+03;
                                                                                                                                                                                                                                                                        DB 1;
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                                                                                                                                                                                                                                                                       Length 21;
                                                                                                                                                                                                                                           Indels
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                                                                                                                                                                                                                                         0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            genetic
etes and
                                                                                                                                                                                                                                        Gaps
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RESULT 1731

AAF96063/C

ID AAF96063 standard; DNA; 21 BP.

XX

AC AAF96063;

XX

AC AAF96063;

XX

AC AAF96063;

XX

Human gene single nucleotide polymorphism #824.

XX

Human; variant thrombospondin 1; variant thrombospondin 4; SNP;

XX

XX

Myccardial inflarction; atherosclerosis; stroke; venous thromboembolism; which is a stroke; venous thromboembolism; paternity test; ds.

XX

XX

Myccardial inflarction; atherosclerosis; stroke; venous thromboembolism; xx

XX

Myclardial inflarction; atherosclerosis; stroke; venous thromboembolism; xx

XX

XX

PM

Yelag= a

/*tag= a
/*tag= a
/*standard_name= "single nucleotide polymorphism"

XX

PD

15-MAR-2001.

XX

PF

07-SEP-2000; 2000WO-US024503.

XX

PR

10-SEP-1999; 99US-0153357P.
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ARESULT 1728
AAF96513
ID AAF9651
XX AAF9651
XX O6-JUN-
XX Human;
CW Polymoz
KW Human;
KW polymoz
KW myccard
KW myccard
KW pulmona
XX Homo sa
XX Homo sa
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                                                                                                                                                                                                                                                                                                                                                                                                       묽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to a substantially purified or isolated nucleic CC acid (I) from ryegrass or fescue species including a simple sequence CC repeat (SSR), having 2 or more tandemly repeated nucleotide core elements CC 2-6 nucleotides in length. Also included are a nucleot acid primer CC suitable for amplifying an SSR, identifying (M1) an SSR by preparing a CC library of ryegrass or fescue genomic DNA enriched for SSRs and CC identifying clones in the library containing SSRs, a library of ryegrass or crease breeding by identifying an SSR that is closely CC associated with the gene such that the SSR and the gene are CC preferentially co-inherited, and selecting for the SSR in the breeding, a CC method for DNA profiling grass or creal species varieties by assessing cariation between SSR varieties and testing the purity of grass or cereal section of genes in grass or cereal breeding, for CC may be used in the selection of genes in grass or cereal section, for testing the purity of grass or cereal sections of genes in grass or cereal section of genes in grass or cereal breeding, the CC grass or cereal section of genes in grass or cereal breeding, for CC profiling grass or cereal section of genes in grass or cereal breeding, for CC grass or cereal section of genes in grass or cereal breeding, for CC grass or cereal section of genes in grass or cereal breeding, for CC grass or cereal section of genes in grass or cereal breeding, for CC grass or cereal section of genes in grass or cereal breeding, core constitution the grass or cereal section of genes in grass or cereal breeding.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New simple sequence repeats having 2 or more tandemly repeated nucleotide core elements isolated from ryegrass and fescue, useful for selecting of genes in grass or cereal breeding or profiling grass or cereal species
                                                                            Human; variant thrombospondin 1; variant thrombospondin 4; SNP; polymorphism; vascular disease; coronary artery disease; forensics; myocardial infarction; atherosclerosie; stroke; venous thromboembolism;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 21 BP; 0 A; 7 C; 0 G; 14 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (SAUS-)
(UYSC-)
(VICT-)
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04-MAY-2000; 2000AU-00007310.
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                                                               pulmonary embolism;
                                                                                                                                                                                                             06-JUN-2001
                                                                                                                                                                                                                                                                                              AAF96513 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 6; Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2001-512563/56
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Forster JW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  03-JAN-2001; 2001NZ-00509193
                                                                                                                                                                                                                                                                                                                                                                                                                                               2800
                                                                                                                                                               gene single nucleotide polymorphism #1274.
                                                                                                                                                                                                                                                                                                                                                                                                     21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       INT MAIZE & WHEAT IMPROVEMENT CENT.
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STATE VICTORIA DEFT NATURAL RES & ENVIRO. UNIV ADELAIDE.
                                                                                                                                                                                                                                                                                                                                                                                                                                        AGGAAGGAAAATGAAGAAG 2820
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                             (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.3%;
                                                               paternity test; ds.
                                                                                                                                                                                                                                                                                                 22
                                                                                                                                                                                                                                                                                                 ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 14.6;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          .1e+03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 1;
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RESULT 1729
AAF96890
ID AAF9689
XX AAF9689
AC AAF9689
DT 06-JUN-
XX
DE Human 9
XX
W Human;
KW Human;
KW myocard
KW myocar
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            pulmonary embolism. Single nucleuric particle professionally and phenotype useful in forensics, paternity testing, genetic analysis and phenotype correlations to diseases. The present sequence is an example of one of the human gene SNPS shown in the specification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present invention provides a method of diagnosing a vascular disease in an individual, involving determining the sequence at various polymorphic sites within the human thrombospondin 1 and thrombospondin 4 genes. The sequences at a number of polymorphic sites are also provided in the specification. In particular, the method can be used in the diagnosis of atherosclerosis, myocardial infarction, coronary heart disease, stroke, peripheral vascular diseases, venous thrombosmbolism and pulmonary embolism. Single nucleotide polymorphisms (SNPs) are also
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Nucleic acids comprising single nucleotide polymorphisms, useful applications such as forensics, paternity testing, medicine, generallysis and phenotype correlations to diseases such as diabetes
                                                                                                                                                                                                                                                                                                 Human; variant thrombospondin 1; variant thrombospondin 4; SNP; polymorphism; vascular disease; coronary artery disease; forensics; myocardial infarction; atherosclerosis; stroke; venous thromboembolism; pulmonary embolism; paternity test; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 21 BP; 8 A; 6 C; 6 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              06-JUN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAF96890;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAF96890 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example; Page 137; 242pp; English.
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16-AUG-2000; 2000US-0225724P.
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                                                                                       Variation
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           single nucleotide polymorphism #1651.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gargill M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
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/*tag= a
                                           replace(11,G)
/*tag= a
                                                                                                                               Location/Qualifiers
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                                                                                                                                                                                                                                                                                            paternity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 14.6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1.1e+03
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21
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/standard_name= "single nucleotide polymorphism"

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RESULT 1726
AAS13707
ID AAS1370
XX
AC AAS1370
XC AAS1370
XX
DT 08-MAY-
XX
DE Simple
XW Simple
KW Simple
KW Cereal
XX
OS Poeae.
XX
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present sequence is a PCR primer used in the isolation of human CC polynucleotides which are useful in gene therapy, and for disgnosing a CC pathological condition or a susceptibility to it. In particular, the pathological condition or a susceptibility to it. In particular, the CC pathological condition or modulating gene expression in CC chromosome identification. The polynucleotides are useful for CC chromosome identification, controlling gene expression through triple CC helix formation or antisense DNA or RNA, or identifying individuals from CC minute biological samples using DNA-based identification techniques. The CC polynucleotides can also be used as an alternative to restriction CC fragment length polymorphism (RFLP), by determining the actual base-by-cc base DNA sequences of selected portions of an individual's genome. The CC polynucleotides may also be used as molecular weight markers on Southern CC polynucleotides may also be used as molecular weight markers on Southern CC polynucleotides, or as an antigen to pict an immune response. The CC polynucleotides or useful in diagnostic process of discovering novel CC polynucleotides are useful in diagnostic procedures to detect a disorder. CC The polynucleotides and polypeptides are useful for process of discovering treating or ameliorating immune system disorders, genetic disorders, cancers, some action of tissues, especially in wounds or burns. CC or preservative
                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                           Matches
                                                   Simple sequence repeat; plant; ds; cereal profiling; grass profiling;
                                                                                                                                            08-MAY-2002
                                                                                                                                                                                                                  AAS13707 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New polynucleotides and polypeptides, useful in gene therapy and in diagnosing a pathological condition, e.g. for modulating gene expression in gastrointestinal inflammation, or for treating cancers or genetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-JUN-2000; 2000WO-US015191
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 2; Page 67; 108pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2001-061508/07
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              polypeptides and
preservative
                                                                                                                                                                                                                                                                                                      21
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17; Conserv
                                                                                                         веquence
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                                                                                                                                                                                                                                                                                                                                      GCAGAAGAACCACTTCTCTGG 58
                                                                                                                                                                                                                                                                                                       GCAGAAGATGCACTTCACCGG
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                                                                                                                                                                                                                                                                                                                                                                                                                                             BP; 3 A; 6 C; 6 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                          (first entry
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                                                                                                         repeat,
                                                                                                                                                                                                                                                                                                                                                                                      0.3%;
                                                                                                        SSR,
                                                                                                                                                                                                                  21
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                                                                                                         #4.
                                                                                                                                                                                                                                                                                                                                                                                          Score 14.6; DB 1; Length 21; Pred. No. 1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pribyl TM, Hillbush
                                                    SSR; ryegrass; fescue; tandem repeat; seed batch purity testing.
                                                                                                                                                                                                                                                                                                                                                                         4.
                                                                                                                                                                                                                                                                                                                                                                         Indels
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Simple

sequence repeat; plant; ds;
profiling; grass profiling;

grass profiling; seed

SSR;

ryegrass; fescue; tandem batch purity testing.

Simple 08-MAY-2002

sequence

repeat,

SSR,

#31.

(first entry)

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NZ509193-A.

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RESULT 1727
AAS13734/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to a substantially purified or isolated nucleic CC acid (I) from ryegrass or fescue species including a simple sequence crepeat (SSR) having 2 or more tandemly repeated nucleotide core elements CC 2-6 nucleotides in length. Also included are a nucleit acid primer suitable for amplifying an SSR, identifying (M1) an SSR by preparing a CC library of ryegrass or fescue genomic DNA enriched for SSRs and CC elementifying clones in the library containing SSRs, a library of ryegrass or cereal breeding by identifying an SSR that is closely cassociated with the gene such that the SSR and the gene are comethod for DNA profiling grass or cereal seed batches by assessing variation within seed batche of an SSR. The SSRs or cereal seed batches by assessing variation within seed batch of an SSR. The SSRs can be used in the selection of genes in grass or cereal breeding, for compatible grass or cereal species variations or cereal species variations or cereal seed batches or cereal species variations or cereal seed batches or cereal seed batches, and for DNA profiling to setablish the company of the company of the purity of grass or cereal seed batches, and for DNA profiling to setablish the company of the compan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local S
Matches 17
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                                                                                                                                                                                                                                             AAS13734;
                                                                                                                                                                                                                                                                                    AAS13734 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 21
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(ITMA-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (SAUS-)
(UYSC-)
(VICT-)
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04-MAY-2000; 2000AU-00007310
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17; Conserv
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STATE VICTORIA DEPT NATURAL RES & ENVIRO
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Pred. No. 1.
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AAA66883
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Best Local S
Matches 17
                                             Matches
                                                           Query Match
Best Local (
                                                                                                                                  identifying and localising dog genes, since it covers approximately 80 % of the dog genome and provides a dense map integrating different types (i.e. Type I and Type II) of markers. The map and the dog genome markers (or complementary sequences) are especially useful to identify genes responsible for phenotypic and behavioural traits in dogs, to identify morbid genes, to analyse diseases and identify implicated genes in such diseases and their alleles, and to study dog pedigrees. They may also be useful for isolating corresponding human gene sequences e.g. genes involved in genetic diseases
                                                                                                                                                                                                                                                                                                                                                               New radiation hybrid map of the dog, Canine familiaris, genome, useful for e.g. identifying genes implicated in phenotypic and behavioral traits or in genetic diseases and for studying dog pedigrees.
                                                                                                                                                                                                                                                                                                                                                                                                                              WPI;
                                                                                                       Sequence 21 BP; 4 A; 5 C; 5 G; 7 T; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Canis familiaris.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Dog; genome; genomic marker; radiation hybrid map; identification; chromosome location; gene marker; polymorphic microsatellite marker;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Dog genomic marker oligonucleotide sequence SEQ ID NO:745
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 21 BP; 7 A; 8 C; 4 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 mycobacteria, e.g. tuberculosis and leprosy) or cancer (particularly melanoma, especially where used as adjuvant therapy in combination with known antitumour agents). The present sequence represents a PCR primer used to detect Valphal4 T cells
                                                                                                                                                                                                                                                                     The present invention describes a radiation hybrid map of the dog (Can familiaris) genome comprising the genome location of a marker selected from AAA66139 to AAA6942. The radiation hybrid map is useful for
                                                                                                                                                                                                                                                                                                                                    Claim 1; Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Galibert F,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  15-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO200029615-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    13-NOV-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAA66883 standard;
                 2613
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4465 TGTGCCAAGTGCTGTGCTAAG 4485
                                                                                                                                                                                                                                                                                                                                                                                                                            2000-387821/33.
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                                                             Similarity
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AGCCCTGTCTTTGCCACATTT 2633
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       behaviour;
                                               Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          Andre
                                                                                                                                                                                                                                                                                                                                  85; 87pp;
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                                                        0.3%;
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                                                                                                                                                                                                                                                                                                                                  English.
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                                                             Score 14.6;
Pred. No. 1.
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Pred. No. 1.1e+03;
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                                               Mismatches
                                                                                                       ₽;
                                                             1.1e+03
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                                                                           DB 1;
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                                                                          Length 21;
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12-MAR-2001 AAC89805;

(first entry)

AAC89805 standard;

DNA;

21

0

Human; cytostatic; immunomodulator; immunostimulant; vulnerary; anti-inflammatory; neuroprotective; anti-bacterial; gene therapy gastrointestinal inflammation; immune system disorder; genetic cancer; autoimmune disorder; infection; wound healing; PCR prim

gene therapy; genetic disc PCR primer;

88

SEQ

ij

NO:

74.

Human gastrointestinal inflammation-related DNA primer,

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                                                    Matches
                                                             Query Match
Best Local Similarity
                                                                                                                                          The present invention relates to the human uncoupling protein 3 (mitochondrial, proton carrier) (UCP3) gene and polymorphisms. The polymorphisms are associated with obesity, especially diabetes mellitus associated obesity. They polymorphisms may be identified and analysed to determine whether an individual is susceptible to obesity and may be used as the basis for targeted design of drugs to treat obesity. The present sequence was used in the identification and amplification of UCP3
                                                                                                                                                                                                                                                                          Nucleic acids encoding uncoupling protein 3 (mitochondrial, proton carrier) (UCP3) proteins comprising single nucleotide polymorphisms, useful for the design of drugs for treating obesity.
                                                                                                    Sequence 21 BP; 5 A; 3 C; 8 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                 (GENA-)
(STEP/)
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                                                                                                                              polymorphisms
                                                                                                                                                                                                                                                   Example 1; Page 34; 94pp; English.
                                                                                                                                                                                                                                                                                                                                 WPI; 2001-218562/22.
                                                                                                                                                                                                                                                                                                                                                           Chew
                                                                                                                                                                                                                                                                                                                                                                                                                          08-SEP-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          UCP3; uncoupling protein 3; polymorphism; obesity; diabetes mellitus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Forward
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                        3254 CATGGGAGTGGGGCCCTTTGG 3274
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                                                                                                                                                                                                                                                                                                                                                                                    STEPHENS J
                                                                                                                                                                                                                                                                                                                                                                                                GENAISSANCE PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   primer used
 CATTGGAATGGGGCACTATGG
                                                                                                                                                                                                                                                                                                                                                           Choi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGCCCTGAGTTGGCTACATTT 21
                                                  Conservative
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                                                                                                                                                                                                                                                                                                                                                          JΥ,
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                                                             0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    amplify UCP3 gene
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                                                 0;
                                                             Score 14.6;
Pred. No. 1.
21
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                                                  Mismatches
                                                               .1e+03;
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                                                    Indels
                                                                           21;
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                                                  Gaps
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Drosophila melanogaster.

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RESULT 1721
AAA29615/c
ID AAA2961
XX AAA2961
XX AAA2961
XX Tick de
XX Tick de
XX Tick; v
KW Serine
XX Haemaph
XX JP20000
XX JP20000
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XX 17-SEP-
XX WPI; 20
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PCR primers AAZ46106-07 were used to amplify FHIT sequences. The specification describes NIT1 sequences. The human and mouse NIT1 genes are members of an uncharacterised mammalian gene family with homology to bacterial and plant nitrilsses. The tumour suppressor gene FHIT in D. melanogaster and C. elegans code for fusion proteins in which the Fhit domain is fused with a Nit domain. In mouse and humans, FHIT and NIT are encoded by two different genes, localised on chromosomes 3 and 1 in human and 14 and 1 in mouse. The human FHIT gene at chromosome 3p14.2, spanning the constitutive chromosomal fragile site FRA3B, is often altered in most common forms of human cancer. The Nit1 protein overcomes the mutated inactivation of the genome alleles. The NIT1 genes, encoded polypeptides, derivatives and analogues of them, and antibodies are used as diagnostic and therapeutic reagents for the detection and treatment of cancers
                WPI; 2000-296340/26
                                                                                                                                                                                                                      Tick; vaccine; infection; salivary gland antigen; immunogen; serine protease; cysteine protease; blood sucker; primer; ss
                                                                                                                                                                                                                                                                   Tick derived
                                                                                                                                                                                                                                                                                                10-AUG-2000
                                                                                                                                                                                                                                                                                                                             AAA29615;
                                                                                                                                                                                                                                                                                                                                                          AAA29615 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Novel nitrilase homologs used as diagnostic the detection and treatment of cancer.
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                                                                                                     17-SEP-1998;
                                                                                                                                                                                            Haemaphysalis longicornis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20-JUL-1999;
                                                                                                                                    28-MAR-2000
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                                             (FARB ) BAYER KK.
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ilarity 81.0%;
Conservative
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                                                                                                                                                                                                                                                                  serine protease primer GSP1.
                                                                                                                                                                                                                                                                                                (first entry)
                                                                          98JP-00281932
                                                                                                       98JP-00281932
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Pred. No. 1.16
0; Mismatches
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FEXEXOCOCOCXS
                                                    The present sequence represents a primer used in the isolation of a derived serine protease. The present invention also describes a tick salivary gland antigen related immunogen and a tick derived cysteine protease. A nucleotide sequence encoding any of the above proteins of used in a vaccine against tick carried infections for domestic animal used in a vaccine against tick carried infections for domestic animal
                                                                                                                                                                                                 A'gene encoding tick salivary gland antigen - useful as a vaccine protecting animals from tick-carried infections.
     Sequence 21
                                          as cattle
                                                                                                                                                                 6; Page 11; 29pp; Japanese.
     BP;
     N
     A,
       ហ
c;
     11 G; 3 T; 0 U;
       0 Other;
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                                                                                                                                  tick
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Query Match
Best Local S
Matches 17
                   4904 GIGGGCAGCCATCACCAGCCA 4924
21
                                       l Similarity
17; Conserv
GIGCGCCGCCGTCACCACCCA 1
                                        Conservative
                                                0.3%;
                                       0
                                                  Score 14.6; DB 1;
Pred. No. 1.1e+03;
                                     Pred. No. 1.100; Mismatches
                                                            1,
                                                          Length 21;
                                        Indels
                                        0,
                                        Gaps
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밁 8

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RESULT 1722
AAC86524/c
                                                                                                                                                                                                                                                            Natural killer T cell; NKT; phosphatidylinositol mannoside; granulomatous-type response; mucosal response; bacterial in: Valpha14+ T cell; granulomatous lesion; immune response; le
                                                                                                                                                                                  19-APR-1999;
                                                                                                                                                                                                                                                                                                      19-MAR-2001
                                                                                                                                               Apostolov I,
                                                                                                                                                             (INRM )
                                                                                                                                                                                               19-APR-2000; 2000WO-FR001029
                                                                                                                                                                                                             26-OCT-2000.
                                                                                                                                                                                                                          WO200063348-A2
                                                                                                                                                                                                                                                      tuberculosis; cancer; PCR primer; ss.
                                                                                                                                                                                                                                                                                        PCR primer used
                                                                                                                                                                                                                                                                                                                    AAC86524;
                                                                                                                                                                                                                                                                                                                                AAC86524 standard; DNA;
                                                                                                                                                             INSERM INST NAT SANTE & RECH MEDICALE. INST PASTEUR.
                                                                                                                                                                                                                                                                                                      (first entry
                                                                                                                                                Gachelin
                                                                                                                                                                                  99FR-00004897
                                                                                                                                                                                                                                                                                        င်
                                                                                                                                                                                                                                                                                        detect murine Valphal4 T cells.
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                                                                                                                                                Kourilsky
                                                                                                                                                Ψ,
                                                                                                                                                Takahama
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The specification describes a pharmaceutical composition that comprises natural killer T cells (NKT) activated by a phosphatidylinositol mannoside (PIM), and a carrier. Activation of NKT by PIM induces a granulomatous-type response, particularly a mucosal response in the case of bacterial infections. This activation is independent of the CD1/T cell receptor pathway and is based instead on the inate immunity mediated by CD14 and bases the response to Th1 type. It is relatively specific, implying an oligoclonal distribution (contrast the polyclonal activation induced by ceramides). NKT are the only Valpha14+T cells that infiltrate granulomatous lesions. The compositions, and/or PIM alone, are used to treat diseases where a granulomatous-type immune response is desired, particularly bacterial infection (especially where caused by

Composition containing natural infection or cancer, activated induce a granulomatous response

Disclosure; Page 10;

35pp; French.

response.

killer T cells, useful e.g. for treating by a phosphatidylinositol mannoside to

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RESULT 1719
AAF19553/c
ID AAF1955
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Best Local
                                                                                                                                                  Low adenosine antisense oligonucleotide; phosphorothioate; allergy; human; airway disorder; bronchoconstriction; lung inflammation; surfactant depletion; respiratory; bronchodilator; antiinflammatory; immunosuppressive; antiasthmatic; analgesic; hypotensive; cytostatic; respiratory obstruction; pulmonary obstruction; impeded respiration; surfactant hypoproduction; pulmonary vasoconstriction, asthma; RDS; respiratory distress syndrome; pain; cystic fibrosis; allergic rhinitis; pulmonary hypertension; emphysema; pulmonary transplantation; rejection; chronic obstructive pulmonary disease; pulmonary infection; bronchitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention provides a 120 kDa immunodominant antigenic protein of Ehrlichia canis that is immunoreactive with anti-Ehrlichia canis serum. Ehrlichia canis that is immunoreactive with anti-Ehrlichia canis serum. The protein can be expressed by standard recombinant methodology. The protein is useful for inhibiting Ehrlichia canis infection. Sequences protein is useful for inhibiting Ehrlichia canis infection. Sequence AAZ90455-460 represents PCR primers based on the DNA sequence of the E. Chaffeensis 120 kDa protein gene, used for amplifying the DNA encoding the LNA in the LNA consideration of the LNA consideratio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 3; Fig 1; 78pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Protein immunoreactive with anti-Ehrlichia canis and comprises a sequence of 688 amino acids, useful for inhibiting Ehrlichia canis infection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         09-MAR-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              120 kDa protein;
Ehrlichia canis j
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 E. canis 120 kDa
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                                                                                                                                                                                                                                                                                                                                                                                                                        Human IL4 receptor polynucleotide fragment #1120.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAF19553 standard;
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                        WO200062736-A2
                                                                          Homo sapiens.
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canis infection; antibacterial;
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Pred. No. 1.
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transmitters, defensine, growth factors, vasoactive peptides and receptors, binding proteins and malignancy associated proteins. The antisense oligonucleotides may be used in this way to treat disorders including respiratory obstruction (especially pulmonary obstruction and/or bronchoconstriction) and/or lung inflammation, allergy(ies) and/or surfactant hypoproduction which are associated with a disease or condition selected from pulmonary vasoconstriction, inflammation, allergies, asthma, impeded respiration, respiratory distress syndrome (RDS), pain, cystic fibrosis (CP), allergic rhinitis (AR), pulmonary hypertension, emphysema, chronic obstructive pulmonary distress syndrome pulmonary transplantation rejection, pulmonary infections, bronchitis, and/or cancer. AAF18434 to AAF21543 represent human polynucleotide fragments and antisense oligonucleotides used in the exemplification of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   immunosuppressive, antiasthmatic, hypotensive and cytostatic activities. The antisense oligonuclectides and (I) can be used to down-regulate the expression and or activity of target polypeptides associated with lung/respiratory disorders and malignancies, such as stimulating and activating peptide factors and transmitters, transcription factors, immunoglobulins and antibodies, antibody receptors, cytokines and chemokines, endogenously produced specific and non-specific enzymes, binding proteins, adhesion molecules and that receptors, cytokine and bending proteins, adhesion molecules and that receptors, cytokine and
                                                                                                                                                                                                                                                                                                                                                                                            chemokine receptors, adenosine receptors, bradykinin receptors, central nervous system (CNS) and peripheral nervous and non-nervous system receptors, CNS and peripheral nervous and non-nervous system peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention describes low adenosine (A) content antisense oligonucleotides and compositions (I) comprising them. In the antisense oligonucleotides the A is replaced by a 'Universal' or alternative base. (I) can have respiratory, bronchodilator, antiinflammatory, analgesic,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Low adenosine (A) content antisense oligonucleotides which do not trigger adenosine receptors during metabolism, useful e.g. for treating cancers and respiratory obstructions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 14; Page 208; 1592pp; English.
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base.

Sequence 21 BP; 0 A; 11 C; 4 G; 6 T; 0 U; 0 Other;

Matches Query Match Best Local : 2064 GGGAACAAGGGAGCCGTGGGG 2084 21 1 Similarity Conservative 0.3%; 0 Pred. Score 14.6; DB 1; Length Mismatches No. .1e+03; 21; 0, Gaps 0

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GAGAACAACGGAGGCGCGGGG

ARSULT 1720
AAZ46106/c
ID AAZ4610
AC AAZ4610
XX AAZ4610
XX AAZ4610
XX AAZ4610
XX AAZ4610
XX PCR PX1
XX NIT1 96
KW FRA3B;
XX

AAZ46106 standard; DNA; 21

AAZ46106

05-MAY-2000 (first entry)

PCR primer used to amplify FHIT cDNA sequences.

NIT1 gene; nitrilase; tumour suppressor gene; FHIT; chromosome 3p14.2; FRA3B; cancer; genome allele inactivation; PCR primer; ss.

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                                                                                                  RESULT 1716
AAZ74121/c
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                                                                                                                                         AAZ65654 to AAZ69578 represent human biallelic markers from the present invention, which contain a polymorphic base at position 24 of their nucleotide sequences. AAZ69579 to AAZ7440 represent amplification primers for the biallelic markers. The biallelic markers of the invention have a variety of uses: they can be used for high density mapping of the human genome, and in complex association studies and haplotyping studies which are useful in determining the genetic basis for disease states. Compositions and methods of the invention can also be useful for the identification of the targets for the development of pharmaceutical agents and diagnostic methods, as well as the characterisation of the differential efficacious responses to and side effects from pharmaceutical agents acting on a disease as well as other treatment. N.B. The SEQ ID NOS 2882, 2913, 2974, 3015, 3096, 3157, 3277, 3297 and 3367, are not actually given a sequence in the Sequence Listing from the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                   Claim 8; Page 2038; 2745pp; English.
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23-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human genome; biallelic marker; high density disequilibrium map; genomic map; haplotype; phenotype; polymorphic base; genotyping; haplotyping; hybridisation; identification; characterisation; haplotyping; hybridisation; identification; SNP; PCR primer; amplification; single nucleotide polymorphism; SNP; PCR primer;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                           biallelic markers used to construct a high density disequilibrium
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17; Conserv
                                                                                                                                                                                                                                                                                                                                                                              the human genome.
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                                                                                                                               invention
CCACTTCTCTGGCCCACCCAT 67
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                                                                                                BP; 9
                                           Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         98US-0082614P.
98US-0109732P.
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                                                                                                  P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DNA;
                                                      0.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5 C; 6 G; 6 T; 0 U; 0 Other;
                                                                                                0 C; 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    Chumakov
                                         0;
                                                                                                G; 3 T;
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                                                         Score 14.6; DB 1; Length 21; Pred. No. 1.1e+03;
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Pred. No. 1.
                                         Mismatches
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                                                                                                0
                                                                                                ä
                                                                                                  0 Other
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                                           Indels
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                                          RESULT 1718
AAZ90455
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AAZ69606/c
                                                                                                                                                                                                                                                                          AAZ65654 to AAZ65578 represent human biallelic markers from the present invention, which contain a polymorphic base at position 24 of their nucleotide sequences. AAZ65579 to AAZ7440 represent amplification primers for the biallelic markers. The biallelic markers of the invention have a variety of uses: they can be used for high density mapping of the human genome, and in complex association studies and haplotyping studies which are useful in determining the genetic basis for disease states. Compositions and methods of the invention can also be useful for the identification of the targets for the development of pharmaceutical agents and diagnostic methods, as well as the characterisation of the differential efficacious responses to and side effects from pharmaceutical agents acting on a disease as well as other treatment.

N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and 3367, are not actually given a sequence in the Sequence Listing from the
                                                                                                                                                                      Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                       Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human genome, biallelic marker; high density disequilibrium map; genomic map; haplotype; phenotype; polymorphic base; genotyping; haplotyping; hybridisation; identification; characterisation; haplotyping; hybridisation; dentification; SNP; PCR primer; amplification; single nucleotide polymorphism; SNP; PCR primer;
                             AAZ90455 standard; DNA;
                                                                                                                                                                                                                                     Sequence 21 BP; 2 A;
                                                                                                                                                                                                                                                                  present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 8; Page 1076; 2745pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     map of the human genome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Novel biallelic markers used to construct a high density disequilibrium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2000-013267/01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cohen D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                21-APR-1998;
23-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                21-APR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human biallelic marker upstream amplification primer SEQ ID NO:3962.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAZ69606;
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                                                                                                                                       2465 CARATACGCCTACACCAAGCA 2485
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                                                                                                          CAAATCAGCCTCCACAAAGCA 1
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                                                                                                                                                                      Conservative
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98US-0109732P
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                                                                                                                                                                                                                                   2 C; 8
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                                                                                                                                                                                                                                   G; 9 T; 0 U; 0 Other;
                                                                                                                                                                      0;
                                                                                                                                                                                        Pred.
                                                                                                                                                                                                      Score 14.6;
                                                                                                                                                                        Mismatches
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                                                                                                                                                                                        No.
                                                                                                                                                                                       1.1e+03
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RESULT 1714
AAA61494
samples. The method comprises performing a nested PCR to amplify a target nucleotide sequence in a purified sample nucleic acid mixture. In the first stage of the nested PCR, a 674 bp region of the Pseudorabies virus gII gene (AAA61490), which encodes a glycoprotein essential for viral replication is amplified. An aliquot of the first stage PCR mixture is then removed and a second target region contained within the 674 bp region is amplified in the second stage of the nested PCR. The first and second stage PCR products which will indicate the presence of the virus in the sample. The nested PCR primers are salected from the 674 bp region. The outer, first stage PCR primers are AAA61491 (upper primer) and either AAA61492 or AAA62493 (lower primers), and the inner, second stage PCR primers are selected from the 674 bp region. The outer, first stage PCR primers are AAA61491 (upper primers) and one selected from AAA61497-A61500 (lower primers). The method of the invention is useful for detecting pseudorables in a sample suspected of being infected with the virus. The pseudorables virus causes a disease which is generally fatal to young pigs. Those which survive become
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  performing nested amplification of a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Detecting for the presence of Pseudorabies virus in a sample by performing nested polymerase chain reaction comprising two stage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            invention, which correspond to SEQ ID NO:1 to 2815, and then the last 185 sequences are also called SEQ ID NO:1 to 185, but the sequences differ from the previously named sequences. SEQ 18 NO:11 to 1680 (AAA32323 to AAA33992) are specifically claimed ONs from the present invention. N.B. Sequences given in the disclosure of the present invention do not match up with their corresponding SEQ ID NO: sequences given in the sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 1c ii; Col 8; 16pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               30-MAY-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US6068974-A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     29-APR-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pseudorabies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pseudorabies virus glycoprotein gII gene PCR primer,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pseudorabies virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      23-OCT-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (KLAN/) KLANN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Local Sim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2064
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sus scrofa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GGGAACAAGGGAGCCGTGGGG 2084
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     98US-00069811
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  a targeted nucleotide sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              us gII gene;
diagnosis; ı
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       method of detecting Pseudorabies virus
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nested PCR amplification;
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Pred.
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No. 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     virus detect
PCR primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        detection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <u>.</u>
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RESULT 1715
AAZ76443
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Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   reactivated and spread to other susceptible animals. The method allows for greater detection of the virus in the latent state, particularly within tonsillar tissues, before visible signs of the viral disease are evident or after visible signs of the disease have dissipated. Sequences AAA61491-A61500 represent the PCR primers which may be used in the method of the invention. The present sequence represents an inner upper PCR primer which may be used in the second stage of nested PCR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                           Human biallelic marker downstream amplification primer SEQ ID NO:10799.
                                                                                                                                                                                                                                                                                                                                                                                                                             10-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                              AAZ76443;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAZ76443 standard; DNA; 21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              μ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TCACTCACCGCTTCACGCACC 2253
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    21 BP; 6 A; 9 C; 3 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCACGAACCGCTTCACAGACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.3%;
milarity 81.0%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 14.6;
Pred. No. 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length
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Human genome; biallelic marker; high density disequilibrium map; genomic map; haplotype; phenotype; polymorphic base; genotyping; haplotyping; hybridisation; identification; characterisation; haplotyping; hybridisation; dentification; SNP; PCR primer; amplification; single nucleotide polymorphism; SNP; PCR primer; 21-APR-1998; 23-NOV-1998; diagnosis; ss. 21-APR-1999; WO9954500-A2 Homo sapiens (GEST) 98US-0082614P 99WO-IB000822 98US-0109732P

Cohen D,

Blumenfeld M,

Chumakov

WPI; 2000-013267/01

map of the human genome Novel biallelic markers used to construct a high density disequilibrium

Claim 9; Page 2533; 2745pp; English

identification of the targets for the development of pharmaceutical agents and diagnostic methods, as well as the characterisation of the differential efficacious responses to and side effects from pharmaceutical agents acting on a disease as well as other treatment.

N.B. The SEQ ID NOs 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3227 and AAZ65654 to AAZ69578 represent human biallelic markers from the present invention, which contain a polymorphic base at position 24 of their nucleotide sequences. AAZ69579 to AAZ77440 represent amplification primers for the biallelic markers. The biallelic markers of the invention have a variety of uses: they can be used for high density mapping of the human genome, and in complex association studies and haplotyping studies which are useful in determining the genetic basis for disease states. Compositions and methods of the invention can also be useful for the 3367, are not actually given a sequence in Listing

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RESULT 1712
AAZ06610/c
               PCR primers AAZ06609-Z06610 are used to amplify the human ELK-1 sequence CAAZ06608. Human ELK-1 also known as p6270F is member of the ternary Complex factor subfamily of Ete-domain transcription factor proteins. Antisense polynucleotides targeted to the ELK-1 nucleic acid molecule CAAZ06571-Z06607 inhibit the expression of ELK-1. Sequences AAZ06571-Z067 all cause at least 30% inhibition of ELK-1. Sequences AAZ06571-Z067 all cause at least 30% inhibition of ELK-1 expression of human ELK-1 in human cells or tissues in vitro. ELK-1 uses a bipartite recognition mechanism mediated by both protein-DNA and protein-protein interactions to regulate genes by direct and indirect DNA binding and has been shown to control various signal transduction pathways and other cell functions including apoptosis. This means that antisense compounds inhibiting expression of ELK-1 can be used to treat diseases associated with its expression in animals, particularly humans and to prevent or delay
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local S
Matches 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Antisense compound disease associated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAZ06610 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 13;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              23-NOV-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (ISIS-) ISIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4798
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ELK-1; p62TCF; Ets domain transcription factor protein; apoptosis; ssion inhibition; infection; inflammation; tumour formation; osis; phosphorothicate; antisense compound; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           21
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17; Conserv
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inflammation
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Col 37; 31pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    useful for diagnosis, with ELK-1 expression.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0.3%;
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Pred. No. 1.1e+03;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         treatment and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 1;
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compounds can
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      prevention
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RESULT 1713
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     The present invention describes a new composition comprising an antisense coligonucleotide (ON) with low adenosine (up to 15%), which targets nucleic acids involved in bronchoconstriction, allergies, and/or controlled involved in bronchoconstriction, allergies, and/or antiasthmatio. The ON can have antiinflammatory, antiallergic, antiasthmatic, cytostatic and analgesic activities. The compositions are useful for the treatment of diseases associated with inflammation, controlled in the secondary disease and diseases whose secondary effects afflict the lungs of a subject. They can be used for treating cofficients, inchaemic conditions, pulmonary vasconstriction, allergies, asthma, impeded respiration, respiratory distress syndrome, pain, cystic fibrosis, pulmonary hypertension, emphysema, chronic obstructive pulmonary disease (COPD), and cancers such as leukaemias, lymphomas, carcinomas, and cancers which may metastasise to the lungs, including the breast and prostate cancer. The reduction of the adenosine content of the conchoconstriction and inflammation. AAA33312 represent the prochaese of decyyadenosine which activates adenosine receptors causing bronchoconstriction and inflammation. AAA33312 represent the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                     New antisense oligonucleotides useful for treating e.g. pulmonary vasoconstruction, inflammation, allergies, asthma, hypertension, bronchitis, emphysema, respiratory distress syndrome, ischemia or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; adenosine receptor; low adenosine antisense oligonucleotide; phosphorothicate; impaired respiration; inflammation; allergy; allergy; bronchoconstriction; infibitor; antinflammatory; allergic disease; bronchoconstriction; inhibitor; antinflammatory; antiallergic; antiasthmatic; cytostatic; analgesic; impaired airway; lung disease; ischaemic condition; pulmonary vasoconstriction; asthm respiratory distress syndrome; pain; cystic fibrosis; emphysems; pulmonary hypertension; chronic obstructive pulmonary disease; COPD;
                                                                                                                                                                                                                                                                                                                                                   Claim 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  03-AUG-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Low adenosine antisense oligonucleotide SEQ ID NO:1120.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (UYEC-) UNIV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       28-JUL-2000
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17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                leukaemia; lymphoma; carcinoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAGCTGGTGGCAGCAGCCGAG 400
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                                                                                                                                                                                                                                                                                                                                                   Page 405;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EAST CAROLINA
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A;
                                                                                                                                                                                                                                                                                                                                                 1343pp; English
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Pred. No. 1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
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U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    metastasis; ss.
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AAV99484
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      course of the invention to produce the retroviral packaging plasmids of the specification, which are used in methods for transduction of mammalian target cells with foreign genes. The methods and products can be used for the highly efficient transduction of mammalian cells, considering the production of mammalian cells.

C particularly for human gene therapy. The methods and products provide novel optimised transient expression plasmids (designated KAT) for production of retroviral virions in which high steady state levels of retroviral packaging functions and packageable vector transcripts are produced following introduction of KAT plasmids into mammalian cells capable of efficient transient transfection and expression, in the absence of plasmid replication enables production of high titre virions while minimising the potential for production of high creplication competent retrovirus by recombination
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Best Local S
Matches 17
The present primer is used as a PCR primer and a probe in the course o the invention, to create the vectors described in the specification. T specification describes a retroviral vector pDRTD4.2 for transduction mammalian cells. The vector comprises, in the 5' to 3' direction, a modified 5' Moloney murine leukemia virus (MMLV), long terminal repeat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          defective vectors in cells
                                                                                                                                                                                                                                                                                                                                                                                                                        Retroviral vector; pDRTD4.2; gene expression; mammalian cell transduction; gene therapy; PCR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PCR
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17-MAR-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Oligonucleotides AAV68118-38 are used as PCR primers and probes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; Col 13;
                                                                                                                                 Replication defective retroviral vectors - target cells for the expression of foreign
                                                                                                                                                                                                                                                                11-JUN-1993;
10-JUN-1994;
                                                                                                                                                                                                                                                                                                                                                                   US5858740-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAV99484
                                                                                       Disclosure;
                                                                                                                                                                                                                                                                                                           10-MAY-1995;
                                                                                                                                                                                                                                                                                                                                       12-JAN-1999
                                                                                                                                                                                                                                     (CELL-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      primer
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                                                                                      Col 15; 37pp; English.
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(first entry)
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94US-00258152
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Pred. No. 1.
                                                                                                                                                                                                         Finer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      create retroviral vectors
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                                                                                                                                                                                                         Farson
                                                                                                                                 used to transduce mammalian
genes, especially for use i
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                                                                                                                                                                                                         Roberts
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RESULT 1711
AAX33033/c
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Best Local S
Matches 17
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07-NOV-1997;
12-NOV-1997;
01-MAY-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (LTR) region comprising replacement of the U3 region of the 5'LTR with the U3 region of the Moloney murine sarcoma virus (MMSV), viral gag sequences up to the Nar I site of MMLV, a retroviral splice acceptor, a 3'MMLV LTR region and a foreign gene inserted downstream of the splice acceptor. The vectors may be used for gene therapy, or for the expression of foreign genes, such as genes encoding chimeric receptors for signal transduction in lymphocytes, growth factors, lymphokines, hormones, coagulation factors, the multidrug resistance drug gene, human adenosine deaminase, glucose cerebrosidase, beta-globin and erythropoietin.
                                                                                                                                                                                                   Murphy PD,
Eskandari
                                                                                                                                                                                                                                                                                                                                                                                                                gene
                                                                                                                                                                                                                                                                                                                                                                                                                                             Human BRCA2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAX33033 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 21 BP; 2 A;
                                                                                                                                                                                                                                                                                                                                                             WO9909164-A1
                                                                                                                                                                                                                                                                                                                                                                                                                         Human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    21-JUN-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAX33033;
                                                                                                                                                                              WPI; 1999-190163/16.
                                                                                                                                                                                                                                                      22-MAY-1998;
                                                                                                                                                                                                                                                                                                                    14-AUG-1998;
                                                                                                                                                                                                                                                                                                                                                                                            Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                lomo sapiens.
                                                                                                                                                                                                                                 (ONCO-) ONCORMED INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              264 CCCCCCCTCTCTCTTTCTC 284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           17;
                                                                                                                                                                                                                                                                                                                                                                                                                         BRCA2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity 81.(
17; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCACCCTCACTCTGCTTCTC 21
                                                                                                                                                                                                  'n
                                                                                                                                                                                                  White MB,
, Schryer
                                                                                                                                                                                                                                                                                                                                                                                                                                               gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                               genetic testing; protein therapy; haplotype; detection; breast cancer; ovarian cancer; PCR primer; ss.
                                                                                                                                                                                                                                                   97US-0064926P.
97US-0065367P.
98US-00071715.
98US-00084471.
                                                                                                                                                                                                                                                                                               97US-0055784P.
                                                                                                                                                                                                                                                                                                                    98WO-US016905
                                                                                                                                                                                                                                                                                                                                                                                                                                              PCR primer SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   12 C; 1
                                                                                                                                                                                                   ø
                                                                                                                                                                                                  Rabin MB,
3, Park M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             21
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Pred. No. 1.1e
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   G; 6 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                               ID NO:46
                                                                                                                                                                                                            Olson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1.1e+03
                                                                                                                                                                                                            SJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0 Other;
                                                                                                                                                                                                              Yoshikawa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4:
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                                                                                                                                                                                                              Jackson GM;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
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The present invention describes genomic DNA which contains a BRCA2 gene where the first 12 nucleotides beginning exon 5 are 5 TCCTCTTGTTCT-3' at in sequence (I) (see AAX)3249), where nucleotides numbers 5782-5790 are GTTTGTGTT as in sequence (IV) (see AAX)3255), and where the last 20 nucleotides encoding exon 15 are 5'-CTGCGTGTTCCATAAACAG-3' as in sequence (II) (see AAX)30251) and the first 20 nucleotides beginning exor 16 are 5'-CTGTATACGTATCGCGTTTC-3' as in sequence (III) (see AAX)30253). Products and methods from the present invention can be used for identifying mutations in the BRCA2 gene leading to predisposition or higher susceptibility to breast or ovarian cancer. They can also be used

used

exon

86

New coding sequence haplotypes of the human products for determining susceptibility to,

BRCA2 gene - used to develop detection and treatment of

or ovarian cancer.

Page

32; 226pp; English.

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В
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 1708
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to methods of determining a functional allele CC profile of a gene in a population. Functional allele profiles comprise the commonly occurring alleles in a population, and the relative CC trequencies at which such alleles of a given gene occur. The methods are CC used to identify and determine the frequency of the functional alleles of genes which display extensive allele to heterogeneity, particularly those CC implicated in disease or conditions, such as the BRCAl gene associated CC with breast cancer, CFTR associated with cystic fibrosis, dystrophin CC associated with Duchenne muscular dystrophy and Becker muscular CC dystrophy, and p53 associated with Li-Fraumeni syndrome. The methods can CC also be employed for diseases where allelic and genetic heterogeneity can be employed for diseases where allelic and genetic heterogeneity conjugosis colorectal cancer. Identification of functional alleles is concessary for identification of functions which may be implicated in the CC disease. Sequences ANX32001-172 represent primers for determining the CC genes such as MSH2 gene, MLH1 gene, BRCAl gene, BRCA2 gene and BAP1 gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                                                                                                           NBC; sodium bicarbonate transporter family; immunoassay; pH regulation; treatment; water retention; blood pressure; acidosis; inflammation; cell proliferation; cancer; sperm activation; inactivation; epilepsy; hydroencephaly; glaucoma; colitis; rat; PCR primer; rbNBC; ss.
   20-MAY-1998;
                                26-NOV-1998.
                                                             WO9853067-A1
                                                                                                                                     modified_base
                                                                                                                                                                                     Rattus
                                                                                                                                                                                                  Synthetic
                                                                                                                                                                                                                                                                                                        Rat brain NBC
                                                                                                                                                                                                                                                                                                                                       27-APR-1999
                                                                                                                                                                                                                                                                                                                                                                     AAV72145
                                                                                                                                                                                                                                                                                                                                                                                                AAV72145 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Determining common functional alleles in a population - useful in the diagnosis of disease associated with allelic heterogeneity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 1999-153820/13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      04-AUG-1997;
22-MAY-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 5; Page 37; 78pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TTGGAAGGAGCAGGAAATCAG 4818
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TTAGAAGAATCAGGAAGTCAG 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                        PCR primer #2.
                                                                                                                                                                                                                                                                                                                                       (first entry)
   98WO-US010297.
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98US-00084471.
                                                                                                                                          Location/Qualifiers
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/note= "inos:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;
                                                                                                                                                                                                                                                                                                                                                                                                 DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6 C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0.3%;
                                                                                         "inosine"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              G; 9 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 14.6;
Pred. No. 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  .1e+03;
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RESULT 1709
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Best Local S
Matches 14
                                                                                                                                                                                                                                      Retroviral
human gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAV72144-V72147 are PCR primers used in the isolation and amplification of a novel sodium bicarbonate transporter (INBC). The novel NBC protesins and nucleic acid sequences may be used to treat pathological processes including water retention, increased blood pressure, chronic respiratory and metabolic acidosis, inflammation, cell proliferation, cancer, sperm activation/inactivation, hydroencephaly, epilepsy, glaucoma and colliss. Members of the NBC family of proteins can be used (i) as a target to identify agents that block or stimulate NBC mediated pH regulation, (ii) as a target or bait to identify and isolate binding partners that bind NBC, (iii) in methods to identify agents that block or stimulate activity of an NBC protein, and (iv) as a target to assay for NBC-mediated activity, useful in immunoassays for detecting NBC expression/activity and for murify an NBC antibodies are also useful as modulators of NBC activity, useful in immunoassays for detecting NBC expression/activity
                                                                                                                                                                                                                                                                           Oligonucleotide used as primer and probe.
                                     WPI; 1999-008715/01.
                                                                                                              11-JUN-1993;
                                                                                                                                      11-JUN-1993;
                                                                                                                                                                10-NOV-1998.
                                                                                                                                                                                         US5834256-A
                                                                                                                                                                                                               Synthetic
                                                                                                                                                                                                                                                                                                     13-JAN-1999
                                                                                                                                                                                                                                                                                                                             AAV68134;
                                                                                                                                                                                                                                                                                                                                                     AAV68134 standard; DNA; 21 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         and for purifying an NBC protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 2; Page 41; 138pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        or antagonise NBC activity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New nucleic acid molecules encoding Cotransporter (NBC) family - useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1999-059743/05
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Davis BA, Sussman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20-MAY-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                     4956 ATCGTGCTGGTAGAAGAG 4973
                                                              ₹
                                                                                                                                                                                                                                                                                                                                                                                                                   4 RTCGTGCTGGGARAANAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14;
                                                                                     CELL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                      packaging therapy; P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   B₽;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                      GENESYS
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ussman CR,
                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                               93US-00076299
                                                                                                                                      93US-00076299
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5 A; 2 C; 8
                                                            DA,
                                                                                                                                                                                                                                        plasmid; transduction;
PCR primer; probe; ss.
                                                                                      INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Choi
                                                            Qin
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hoi I, Aalkjaer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   G; 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 14.6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pred.
                                                            Roberts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        treating disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   T; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      proteins of the Sodium Bicarbonate for identifying agents that agonisting disorders mediated by NBC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 1;
                                                                                                                                                                                                                                                   mammalian
                                                            Finer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                   cell;
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Transducing mammalian target cells - using retroviral packaging plasmid and retroviral vector encoding foreign gene to produce replication-

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RESULT 1706
AAV73791
ID AAV7379
XX
AC AAV7379
XX
DT 25-FEB-
XX
DE KSHV VM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 맑
                                                                                                                                                                                                                                                                                                                                                S
                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local 9
                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The specification describes antisense oligonucleotides (AAX52869-X55271) directed against at least 2 mRNAs selected from target genes, coding and non-coding regions of RNAs corresponding to target genes, gene initiation codons, genomic flanking regions, intron-exon borders, the 5'-end, the 3'-end and the juxta-section between coding and non-coding regions and all segments of RNAs encoding proteins associated with one or more diseases, conditions or mixtures. The antisense oligonucleotides may be derived from sequences AAX55272-74. These multiple target oligonucleotides (specifically AAX55180-271) can be used for the antisense treatment of diseases and conditions. Typical diseases and conditions are those associated with impaired respiration and inflammation, including lung diseases, pulmonary vasoconstriction, inflammation, allergic rhinitis, and the second conditions are those associated with impaired respiration and inflammation, allergic rhinitis, and the second conditions are those associated with allergic respiration and conditions are those associated with impaired respiration and inflammation, allergic rhinitis, and the second conditions are those associated with allergic respiration and conditions are those associated with impaired respiration and inflammation, allergic rhinitis, and the second conditions are those associated with a second conditions are those associated with a second conditions are those associated with a second condition and inflammation, allergic rhinitis, and the second conditions are those associated with a second condition and conditions are those associated with a second condition and conditions are those associated with a second condition and conditions are those associated with a second condition and conditions are those associated with a second condition and conditions are conditions and conditions are conditions and conditions are conditions and conditions are conditions are conditions and conditions are conditions and conditions are conditions and conditions are conditions a
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  colon cancer, breast cancer, lung cancer, pancreatic cancer, hepatocellular carcinoma, kidney cancer, melanoma, hepatic metastases, as well as all types of cancers which may metastasize or have metastasized to the lungs, including breast and prostate cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    acute asthma, allergies, asthma, impeded respiration, respiratory distress syndrome, pain, cystic fibrosis, pulmonary hypertension, pulmonary vasoconstriction, emphysema, chronic obstructive pulmonary disease (COPD), and cancers such as leukemias, lymphomas, carcinomas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New antisense oligonucleotides used in treatment of, e.g. pulmonary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               17-SEP-1997;
09-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   17-SEP-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     impaired respiration; inflammation; lung disease;
pulmonary vasoconstriction; inflammation; allergic rhinitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; Page 49; 120pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        vasoconstriction.
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  KSHV vMIP-II PCR primer 1
                                                       25-FEB-1999
                                                                                                                                                           AAV73791 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (UYEC-) UNIV
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                                                                                                                                                                                                                                                                                                                                                   2064 GGGAACAAGGGAGCCGTGGGG 2084
                                                                                                                                                                                                                                                                                                 21
                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BP; 0 A;
                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EAST CAROLINA
                                                    (first entry)
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98US-00093972.
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                                                                                                                                                                 DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                              0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11 C; 4 G; 6 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                     0;
                                                                                                                                                                                                                                                                                                                                                                                                                                Score 14.6; DB 1;
Pred. No. 1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                              .1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                       Indels
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                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                       0;
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RESULT 1707 AAX32154/c ID AAX3215

AAX32154 standard;

DNA;

21

ВP

AAX32154;

14-JUN-1999

(first entry)

PF XXX PN XXX XXX XXX PF XXX

gene;

PCR

primer;

Becker muscular dystrophy; Li-Fraumeni syndrome; neuroi colorectal cancer; MSH2 gene; MLH1 gene; BRCA1 gene; BR

BRCA1 gene; BRCA2

muscular

dystrophy; ibromatosis;

Allele profile; diagnosis; treatment; pharmacogenetic;

fibrosis; dystrophin; Duchenne

cystic

BRCA2 gene specific primer.

04-AUG-1998;

98WO-US016574

11-FEB-1999. WO9906598-A2 Synthetic. 밁 Ś

TGCATCAGCTTCTTCACCCAG

21

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Query Match
Best Local Similarity
Matches 17; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                          AAV73789-V73800 are PCR primers used in the analysis of the Kaposi's sarcoma-associated herpesvirus (KSFV) LUR (long unique region). The primers are used in a method which involves the isolation of a dihydrofolate reductase (DHFR) protein encoded by KSFV OFF 2. KSFV is a new human Herpesvirus (HHV8) believed to cause Kaposi's sarcoma (KS) which is the most common form of neoplasm occurring in persons with acquired immune deficiency syndrome (ALDS). The DHFR protein is useful for vaccination, prophylaxis, diagnosis and treatment of a subject with Kaposi's sarcoma and for detecting expression of a DNA virus associated with the result of the control of the cont
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Synthetic.
                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure; Col 50; 109pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            diagnosis of Kaposi's sarcoma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Kaposi's sarcoma-associated herpes virus di:hydro:folate reductase and is useful f
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 1999-069741/06.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              29-NOV-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  15-DEC-1998
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US5849564-A.
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                                                                                                                                                                                                                                                                                                                                                                                                          Kaposi's sarcoma in a cell
726 TCCATGAGGTTCTTCACCAAG 746
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RA,
                                                                                                                                                                                                                                                                                                           21 BP; 4 A; 8 C; 3 G; 6 T; 0 U; 0 Other;
                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Moore PS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          96US-00770379
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                                                                                                         0
                                                                                                                                                             Score 14.6;
Pred. No. 1.
                                                                                                              Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           s nucleic acid - encodes for treatment, prophylaxis or
                                                                                                                                                             .1e+03
                                                                                                                                                                                                             DB 1;
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                                                                                                                                                                                                             Length
                                                                                                              Indels
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                                                                                                              Gaps
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XGCGGGGGGGGGGGGGG

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RESULT 1703
AAX19783
ID AAX1978
XX AAX1978
XX AAX1978
XX OB-JUN-
XX Human 1
XX Human 1
XX Human 1
XX FH Key
FH Key
FT modific
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XX Synthet
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OS Human 1
XX FH Key
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CT The process
XX Claim 1
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XX Claim 1
XX New Sypt To f IIV-
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XX The process
CC The process
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                                            Query Match
Best Local S
Matches. 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 the KVLQT gene. The specification describes KCNQ proteins. These are nervous system-specific potassium channels. In neurons, potassium channels regulate neuronal excitability, action potential shape and firing pattern, and neurotransmitter release. KCNQ modulators may be to treat disorders such as ataxia, myokymia, seizures, Alzheimer's disease, Parkinson's disease, age-associated memory loss, learning
                                                                                                                                                                       oligonucleotide can be used to treat HIV-1 or HIV-2 infection in a mammal, or inhibit HIV-1 or HIV-2 in a cell. The oligonucleotide has cell toxicity, provokes less immunostimulus than prior art, and is a rich antisense HIV oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human immu
infection;
                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                              The present sequence represents a synthetic oligonucleotide sequence, antisense to a conserved gag region of the HIV-1 genome. The antisense
                                                                                                                                                                                                                                                                                                                                                       Claim 13; Page 63; 64pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                          New synthetic oligonucleotide sequences antisense to conserved gag region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 1999-228890/19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Agrawal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19-AUG-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      05-AUG-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human immunodeficiency virus antisense oligonucleotide SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           08-JUN-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAX19783 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              deficiencies, motor neuron diseases,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (HYBR-) HYBRIDON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO9909154-A2
                                                                                                                                                                                                                                                                                                                                                                                                           HIV-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2614
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       immunodeficiency virus; HIV; phosphorothioate linkage; gag;
ion; antisense oligonucleotide; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   immunodeficiency virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 Similarity
17; Conserv
                                              17; Conser
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  CCCCCCCCTCTCTCTTTCT 283
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                                                                                                                                            21
                                                                                                                                                                                                                                                                                                                                                                                                      genome.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    21
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nilarity 81.0%;
Conservative
                                                                                                                                       BP;
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                                                 Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        98WO-US016345
                                                                                                                                            2 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INC
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                                                                  0.3%;
                                                                                                                                            11 C; 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "phosphorothioate linkages"
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                                         Score 14.6; D
Pred. No. 1.1e
0; Mismatches
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Pred. No. 1.
                                                                                                                                            7 T;
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                                                                                                                                         0 U;
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                                                                  1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1.1e+03;
                                                                                          DB 1;
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                                                                                                                                            0 Other;
                                                                                        Length 21;
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                                              Indels
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                                                                                                                                                                                                                                                                                The antisense
                                            0;
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                                              Gaps
                                                                                                                                                                                                              less
GC-
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RESULT 1705
AAX53987/c
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AAX19781
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                                                                                                                                                                                        Query Match
Best Local (
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                                                                                                                                                                                                                                       The present sequence represents a synthetic oligonucleotide sequence, antisense to a conserved gag region of the HIV-1 genome. The antisense oligonucleotide can be used to treat HIV-1 or HIV-2 infection in a mammal, or inhibit HIV-1 or HIV-2 in a cell. The oligonucleotide has less cell toxicity, provokes less immunostimulus than prior art, and is a GC-rich antisense HIV oligonucleotide
                  Human IL-4
Antisense oligonucleotide; multiple target; antisense treatment;
                                         05-JUL-1999
                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                New synthetic oligonucleotide sequences antisense
                                                                                                                                                                                                                                                                                                                                                                      WPI; 1999-228890/19
                                                                                                                                                                                                                                                                                                                                                                                        Agrawal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human immunodeficiency virus antisense oligonucleotide SEQ ID NO:3.
                                                                                 AAX53987 standard;
                                                                                                                                                                                                                                                                                                                Claim 9; Page 63; 64pp; English.
                                                                                                                                                                                                                                                                                                                                       of HIV-1
                                                                                                                                                                                                                                                                                                                                                                                                                                   19-AUG-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      05-AUG-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human immunodeficiency virus; HIV;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         08-JUN-1999
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                                                                                                                                                                                                                                                                                                                                                                                                               (HYBR-) HYBRIDON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       duman immunodeficiency virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     infection;
                                                                                                                                                         263 CCCCCCCCCCCCCCCCCCCTCTCTCT 283
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      μ.
                                                                                                                                                                                        Similarity
                                                                                                                                                                                                                      21
                                                                                                                                                                                                                                                                                                                                      genome.
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                   receptor antisense oligonucleotide fragment.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      antisense
                                                                                                                                                                                                                      B₽;
                                                                                                                                                                               Conservative
                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                      2 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                   97US-00914827
                                                                                                                                                                                                                                                                                                                                                                                                                                                        98WO-US016345
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/note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Location/Qualifiers
                                                                                DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DNA;
                                                                                                                                                                                        0.3%;
                                                                                                                                                                                                                      11 C; 1 G; 4 T; 3 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    oligonucleotide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "phosphorothicate linkages"
                                                                                 21
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•-
                                                                                                                                                                                        Score 14.6; DB 1;
Pred. No. 1.1e+03;
                                                                                                                                     21
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                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                phosphorothioate linkage; gag;
                                                                                                                                                                                                 Length 21;
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                                                                                                                                                                              Indels
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RESULT 1701
AAZ41051/c
ID AAZ4105
X P P P P X P X P X P R X P X P X P X X O S X K K K X D E X Y C X P X P X X P X X O S X K K K X X D E X Y C 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    This oligonucletide is complementary to a portion of DNA sequence (see CAN71743) coding for the P30/PHAPI (see AAN84053) of the newly identified C V3 loop HIV receptor. It is used as a sense primer, together with an C antisense primer (see AAV71752) in a PCR amplification of P30/PHAPI C reverse-transcribed mRNA. The V3 loop HIV receptor consists of an C association of 3 proteins, named P95/nucleolin, P40/PHAPI and P30/PHAPI C (see AAN84052-54). A method for screening molecules that modulate the CC expression of the receptor comprises: cultivating cells transfected with C a nucleotide sequence encoding P95/nucleolin, P30/PHAPI or P30/PHAPII, C placed under the control of its own promoter; bringing the cells into C contact with a test molecule; and quantifying expression of the C P95/nucleolin, P30/PHAPI or P40/PHAPI e.g. by quantitative PCR using the C P95/nucleolin, P30/PHAPI or P40/PHAPI e.g. by quantitative PCR using the CC primers provided (see AAV71749-54). Active molecules that have the CC ability to alter and/or prevent the binding of the HIV receptor to the CF the invention
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Best Local S
Matches 17
                                                                                                                                                                                                     Cowsert :
Ohasi C,
                   Identifying compounds which modulate expression of nucleic acids, provide compounds having defined physical, chemical or bioactive properties, e.g. antisense activity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New isolated V3 loop HIV receptor - comprises P95/nucleolin, P40/PHAPII and P30/PHAPI proteins, used to develop products for the treatment and prevention of HIV infection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Identification; genetic target; gene modulation; human; antisense oligonucleotide; phosphorothioate; PCR primer; nucleotide sequence-based technology; antisense drug dir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human ELK-1 PCR reverse primer SEQ ID NO:203.
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                                                                                                                                                                                                                                                                                                                                                              13-APR-1998;
28-APR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           13-APR-1999;
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                                                                                                                                               1999-620446/53.
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                                                                                                                                                                                                     LM, Baker BF, Mcneil J,
Wyatt JR, Borchers AH,
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                                                                                                                                                                                                                                                                                                     PHARM INC.
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98US-00067638.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           99WO-US008268.
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Pred. No. 1.
                                                                                                                                                                                                            Freier SM,
Vickers TA;
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                                                                                                                                                                                                                                        Sasmor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             drug discovery
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         human; probe;
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CC the expression of a target nucleic acid (tNA) sequence via binding of the compounds with the tNA sequence. The method comprises generating a CC library of virtual compounds in silico according to defined criteria, and CC evaluating in silico the binding of the virtual compounds with the tNA coording to defined criteria. Also described are: (1) a method of CC defining a set of oligonucleotides (ONS) that modulate the expression of CC a tNA sequence via binding of the ONS with the tNA sequence comprising GC generating a library of virtual compounds in silico according to defined criteria, and evaluating in silico the binding of the virtual ONS with the tNA sequence comprising CC compounds that modulate the expression of a tNA sequence via binding of the compounds that modulate the expression of a tNA sequence via binding of the compounds with the tNA. The methods can be used for the generation CC and identification of synthetic compounds having defined physical, CC chemical or bioactive properties. Information gathered from assays of cuch compounds is used to identify nucleic acid sequences that are CC tractable to a variety of nucleic sequence-based technologies, e.g. antisense drug discovery and target validation. AAZ40852 to AAZ41220, and CC the present invention
Sequence 21 BP; 3 A; 10 C; 2 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 23; Page 103; 264pp; English.
                                                           present invention
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RESULT 1702
AAX26595/c
ID AAX2659
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Best Local S
Matches 17
KCNQ protein; nervous system-specific potassium channel; neuronal excitability; neurotransmitter release; KCNQ modulator; ataxia; myokymia; seizure; Alzheimer's disease; Parkinson's disease; age-associated memory loss; learning deficiency; motor neuron disease; epilepsy; stroke; PCR primer; ss.
                                                                                                                                            16-JUN-1999
                                                                                                                                                                                                           AAX26595
                                                                                                          PCR primer used to amplify an EST with similarity to the KvLQT gene.
                                                                                                                                                                                                                                                                                                                    380 AAGCTGGTGGCAGCAGCCGAG 400
                                                                                                                                                                                                                                                                                                  21
                                                                                                                                                                                                                                                                                                                                                                  17; Conserv
                                                                                                                                                                                                               standard;
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                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                          (first entry)
                                                                                                                                                                                                               DNA;
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Pred. No. 1.1e+03;
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18-FEB-1999. WO9907832-A1. Synthetic

12-AUG-1997; 26-JUN-1998;

97US-0055599P 98WO-US013276

(BRIM) BRISTOL-MYERS SQUIBB

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Disclosure; Page 32;

64pp; English

PCR primers AAX26594-95 were used to amplify an EST with similarity to

New potassium channels, KCNQ2 and KCNQ3 neurotransmission and neuroprotection, o

3 - may be involved used to treat, e.g.

. ataxia.

WPI; 1999-190047/16

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Little

WA;

Dworetzky S,

Yang

Levesque

PC,

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RESULT 1699
AAZ59014/c
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                     Reverse primer P2 was used with forward primer P1 (see AAV32729) in the PCR amplification of the intron 5 region of the human glutathione S-transferase GST-pi gene. PCR utilising a series of primers (see AAV32721-34) was used to isolate overlapping GST-pi DNA segments from SuperCos-GST-pi clone, a genomic library of human glioblastoma multiform cell line MGR-3 genomic DNA. The products were used to determine the full-length sequence (see AAV32717) of the GST-pi gene. Novel methods for the diagnosis, prevention and treatment of tumours, are based on the differential involvement of variant forms of GST-pi (see AAW49013-14)
                                                                    Antitumour; antiviral; antimicrobial; transfer vector; targeting system; triplex; triple helix; antisense; ribozyme; gene therapy; blood factor; hormone; tumour suppressor; antigenic peptide; vaccine; immunotherapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New human glutathione S-transferase variant(s) diagnosis, prevention and treatment of tumours, lymphomas and melanomas.
            WO9949067-A1
                                     Synthetic
                                                             cancer;
                                                                                                                       Triple helix forming oligonucleotide
                                                                                                                                                  11-APR-2000
                                                                                                                                                                                                    AAZ59014 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 1; Page 92; 200pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Glutathione S-transferase; GST-pi gene; hGSTP1; human; tumour; cancer; leukaemia; lymphoma; melanoma; glioma; therapy; diagnosis; PCR; primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 1998-297961/26.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ali-Osman F, Lopez-Berestein Keller C, Akande O;
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17; Conserv
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AIND
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MISSISSIPPI.
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                                                                                                                                                                                                                                                                                                                                                                6 C; 7 G; S T; 0 U; 0 Other;
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                                                                                                                                                                                                    ВP
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Pred. No. 1.
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    used as targets for the
including leukaemias,

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RESULT 1700
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Matches 17
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                    Hovanessian A, Cali
Briand J, Guichard
WPI; 1999-034588/03
                                                                                            12-MAR-1997;
                                                                                                                                                                                           Homo
                                                                                                                                                                                                       Synthetic
                                                                                                                                                                                                                             HIV receptor; V3 loop; human immunodeficiency virus; retrovirus; P30 protein; PHAPI; infection; therapy; PCR; primer; ss.
                                                                                                                                                                                                                                                                  Human V3 loop
                                                                                                                                                                                                                                                                                                                 AAV71751;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 21
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                                                         (INSP )
                                                                                                                   12-MAR-1998;
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                                                                                                                                                                  WO9840480-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 9; Page 40;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New nucleic acid transfer vector comprising double-stranded oligonucleotide, used for gene therapy.
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18-MAY-1998;
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                                                                                                                                                                                          sapiens
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17; Conserv
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CENT NAT RECH SCI.
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                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                  HIV receptor P30/PHAPI sense PCR primer.
                                                                                             97US-0040969P
                                                                                                                     98WO-EP001409
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98US-0085848P.
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                                 Callebaut
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Pred. No. 1.
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                                 B
                                   Jacotot
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         used for preventing the development of cancer in a patient having a precancerous condition, by administering to the patient a first allele specific inhibitor (ASI) targeted to an allele of a first essential gene present in cells of the precancerous condition, where the normal somatic cells of the patient are heterozygous for the first gene, the inhibitor is active on at least one but less than all allelic forms of the gene present in a population and targets only one allelic form present in the normal somatic cells, and the first gene. The products and methods can be used in the diagnosis, prevention and treatment of LOH disorders, e.g. cancers, atherosclerotic plaques, premalignant metaplastic or dysplastic lesions, benign tumours, endometriosis, polycystic kidney disease, and graft versus host disease. The method can also be used to remove malignant cells from bone marrow transplants. ARZ25812-Z26825 represent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   dysplastic lesion; benign tumour; polycystic kidney disease; transplant; graft versus host disease; malignant cell removal; bone marrow; ss.
              interleukin-6; II-6; interferon regulatory factor; rheumatory protein II; complement-binding protein; glycoprotein; capsid protein IV; infection; immediate early protein; Kaposi's sarcoma; protective vaccine; lymphoma; lymphoproliferative disease; leukaemia; splenomegaly; mycosis fungoides; HIV immune status; anti-inflammatory areat: *harrow*.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  This invention describes a novel method for identifying an inhibitor potentially useful for treatment of cancer, where the inhibitor is act on a gene vital for cell growth or viability, and where the gene is subject to loss of heterozygosity (LOH) in a cancer. The inhibitor is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Identifying target genes for allele-specific drugs - used for diagnosis, prevention and treatment of, e.g. cancers, atherosclerotic plaque, dysplastic lesions, endometriosis or graft versus host disease.
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                                                                                                                                                                   27-AUG-2003
03-AUG-1998
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                                                                                            KSHV; HHV8; human herpes virus 8; macrophage inflammatory protein
                                                                                                                                     Primer for
                                                                                                                                                                                                                                                    AAV19931 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (VARI-) VARIAGENICS
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                                                                                                                                                                                                                                                                                                                                          CGCGGAAGCCAAGCTCTCCAG
                                                                                                                               KSHV viral MIP II coding sequence.
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(first en
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                                                                                                                                                                                                                                                                                                                                                                                                          0,
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                                                                                                                                                                                                                                                                                                                                                                                                                           Score 14.6;
Pred. No. 1
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RESULT 1698
AAV32730/c
ID AAV3273
XX
AC AAV3273
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AAV32730

AAV32730 standard;

DNA;

21

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726 TCCATGAGGTTCTTCACCAAG 746

Matches Query Match Best Local

17;

Conservative

0 Pred. Score 14.6;

Mismatches No.

Indels

0

Gaps

0

.1e+03 DB 1;

Length

21

Similarity

81.0%;

Sequence 21 BP; 4 A; 8 C; 3 G; 6 T; 0 U; 0 Other;

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25-JUL-1996;
25-JUL-1996;
25-JUL-1996;
                                                                                                                                                                                                             interferon regulatory factor 1; (d) complement-binding protein; glycoproteins B, M or L; (d) capsid protein IV encoded by ORF65; and (e) immediate early protein encoded by ORF73. Labelled probes for the nucleic acid, proteins encoded by it, and antibodies (Ab) specific for the proteins are useful for detecting HHV8; specifically for diagnosis of Kaposi's sarcoma, in body fluids or tissue samples. HHV8 infections can be treated with antisense or triplex forming molecules or agents that bind specifically to the protein. Ab may be used for prophylaxis or treatment of HHV8 infection, while the protein can be used in protective vaccines. Ab may also be used to differentiate between lymphomas, and
                                                                                                         HHV8 may be implicated in many other lymphoproliferative diseases such as lymphomas, leukaemia, splenomegaly and mycosis fungoides. Cells and animals containing the nucleic acid are useful for drug screening. HHV8-derived paptides can be used as targets for antiviral drugs, e.g. dihydrofolate reductase gene can be inhibited with methotrexate. These can be used to be inhibited with methotrexate.
                                                                                                                                                                                                                                                                                                                                                                                                             This sequence is a primer for DNA encoding the Kaposi's sarcoma-
associated herpes virus (KSHV) macrophage inflammatory protein II (MIP
associated herpes virus 8 (HHV8). The amplified
I). KSHV is also known as human herpes virus 8 (HHV8). The amplified
sequence is an example of the DNA of the invention which encodes a KSHV
polypeptide selected from: (a) viral MIP II; (b) viral IL-6; (c) viral
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New nucleic acid encoding Kaposi's sarcoma associated herpes virus proteins - useful for, e.g. detecting levels of HHV8 in, and preparation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Chang
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10-OCT-1996
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 2; Page 115; 230pp; English.
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                                   inflammatory agent for, e.g. trea
27-AUG-2003 to correct OS field.)
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                                                                 ydrofolate reductase gene can be inhibited with methotrexate. These also be used to determine the immune status of a patient infected HIV. HHV8 derived protein viral MIP III may be used as an anti-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Bohenzky RA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     useful for, e.g. detecting level for treatment of, HIV patients.
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96US-00728323.
96US-00747887.
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96US-00686349.
96US-00686350.
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                                                 treating rheumatoid
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                                                         arthritis.
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ARESULT 1695
AAZZ6335/c
ID AAZZ633
XX AAZZ633
AC AAZZ633
XX 30-NOV-
XX JORNAL Human p
XX
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                                                                                                                                                                                                                                                                Query Match
Best Local
                                                                                                                                                                                                                                                     Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Identifying target genes for allele-specific drugs - used for diagnosis, prevention and treatment of, e.g. cancers, atherosclerotic plaque, dysplastic lesions, endometriosis or graft versus host disease.
                 Human polymorphic region 524
                                                 30-NOV-1999
                                                                                                            AAZ26335 standard;
                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure;
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                                                                                                                                                                                                                                                   Conservative
                                                 (first entry)
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                                                                                                                                                                                                                                                                                                              6 A;
                                                                                                            DNA;
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                                                                                                                                                                                                                                                                 0.3%;
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                                                                                                            21
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                                                                                                              ВP
                                                                                                                                                                                                                                                 0
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Pred. No. 1
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                                                                                                                                                                                                                                                   Mismatches
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                                                                                                                                                                                                                                                                             3364 CGCTGGGGCCCTGCAGGGGAG
                                                                                                                                                                                                                                                     21
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Polymorphism; human; inhibitor; cancer; treatment; cell growth; LOH; cell viability; loss of heterozygosity; precancerous condition; ASI; allele specific inhibitor; somatic cell; diagnosis; prevention; atherosclerotic plaque; premalignant metaplastic lesion; endometriosis; dysplastic lesion; benign tumour; polycystic kidney disease; transplant graft versus host disease; malignant cell removal; bone marrow; ss.
                     transplant;
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Homo sapiens

WO9841648-A2

19-MAR-1998; 98WO-US005419

97US-0041057P

(VARI-) VARIAGENICS INC

Ledley FD, Stanton

WPI; 1998-521232/44.

Identifying target genes for allele-specific drugs - used for diagnosis, prevention and treatment of, e.g. cancers, atherosclerotic plaque, dysplastic lesions, endometriosis or graft versus host disease.

Disclosure; Fig 7; 605pp; English.

This invention describes a novel method for identifying an inhibitor copotentially useful for treatment of cancer, where the inhibitor is active con a gene vital for cell growth or viability, and where the gene is subject to loss of heterozygosity (LOH) in a cancer. The inhibitor is consected to consect the condition, by administering to the patient having a precancerous condition, by administering to the patient a first allele consected to consected the consected to an allele of a first essential gene consected to an allele of a first essential gene consected to an allele of the patient are heterozygous for the first gene, the inhibitor consected to a population and tragets only one allelic forms of the gene commal somatic cells, and the first gene. The products and methods can be used in the diagnosis, prevention and treatment of LOH disorders, e.g. concers, atherosclerotic plaques, premalignant metaplastic or dysplastic consecutions, benign tumours, endometriosis, polycystic kidney disease, and consecutions are consecutions. AAR25812-Z8625 represent consecutions are consecutions and consecutions and consecutions are consecutions. AAR25812-Z8625 represent consecutions are consecutions and consecutions and consecutions and consecutions are consecutions. polymorphic sites described in the method of the invention

21 BP; 1 A; 13 C; 6 G; 1 T; 0 U; 0 Other;

1 Similarity
17; Conserv Conservative 0.3%; 0 Score 14.6; DB 1; Pred. No. 1.1e+03; Mismatches 4 Length Indels 21; 0 Gaps

0

standard; DNA; 21 BP cecceeeeccreeaeeece 1

밁 S

Human polymorphic region 861.

(first entry)

Polymorphism; human; inhibitor; cancer; treatment; cell growth; cell viability; loss of heterozygosity; precancerous condition; allele specific inhibitor; somatic cell; diagnosis; prevention; atherosclerotic plaque; premalignant metaplastic endometriosis; ASI;

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RESULT 1692
AAV43163
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local S
Matches 17
MSRV-1 pol gene, gag gene and env gene, and polypeptides encoded by these genes. The invention also provides antibodies raised against the polypeptides. The genomic sequences, polypeptides and antibodies are also
                                                                              The present sequence represents a fragment of the multiple sclerosis (MS) associated retrovirus-1 (MSRV-1) DNA sequence. This sequence was used as a template to design a complementary 3 primer. The 3 primer was used during the synthesis of MSRV-1 CDNA which encoded a region of the MSRV-1 genome starting from the pol gene sequence and extending towards the gag gene. The invention provides complete or partial genomic sequences of the
                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI;
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                                                                                                                                                                                                                                                                                                                                                                                    New nucleic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Multiple sclerosis associated retrovirus.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Multiple sclerosis associated retrovirus-1; MSRV-1; MS; pol gag gene; env gene; rheumatoid arthritis-associated virus; :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Multiple sclerosis associated retrovirus-1 DNA fragment
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Perron H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                26-NOV-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO9823755-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            29-DEC-1998
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                                                                                                                                                                                                                                                                                             Example 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Komurian-Pradel F,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (INMR ) BIO MERIEUX.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5115 GAATAGATGGGTGATGTCTTT 5135
                                                                                                                                                                                                                                                                                                                                                                                                                                           1998-322732/28
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                                                                                                                                                                                                                                                                                                                                                of, e.g. multiple sclerosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Beseme F,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    e
f
                                                                                                                                                                                                                                                                                             Page 59; 286pp; English.
                                                                                                                                                                                                                                                                                                                                                                                 acid from retroviruses - useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BP; 4 A; 4 C; 6 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    such
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          97WO-IB001482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CDNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            , Bedin F, Paranhos-Baccala
Jolivet-Reynaud C, Mandrand
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    diseases
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Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 1;
                                                                                                                                                                                                                                                                                                                                                                              for diagnosis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
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                                                                                                                                                                                                                                                                                                                                                                                 prevention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     gene;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
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RESULT 1694
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ID AAZ2634
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AAZ26344 standard;

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RESULT 1693
AAV62921
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                    Query Match
Best Local S
Matches 17
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Best Local Sim
Matches 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      claimed useful for diagnosing infection by MS and rheumatoid arthritisassociated viruses, and also for prevention and treatment of infection with these viruses
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 21 BP; 4 A;
                                                                Sequence 21 BP; 5 A; 7 C; 8 G; 1 T; 0 U; 0 Other;
                                                                                            AAV62907-V62927 are PCR primers used in the amplification of a human galactokinase. This protein is used in a method to detect galactokinase mutations. This protein and its encoding nucleic be used in methods allowing the detection, diagnosis and treatments.
                                                                                                                                                                       Detection of galactokinase mutations - gene sequence or altered galactokinase
                                                                                                                                                                                                                                                                                                                                                                                          Galactokinase; l deficiency: PCR
                                                                                                                                                                                                                                                                                                                                                                                                                         Human galactokinase cDNA PCR primer #15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAV62921;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAV62921 standard; DNA;
                                                                                                                                                   Example 1; Col 39-40; 31pp; English.
                                                                                                                                                                                                        WPI; 1998-609232/51.
                                                                                                                                                                                                                            Bergsma
                                                                                                                                                                                                                                                                       26-MAY-1995;
                                                                                                                                                                                                                                                                                                                   03-NOV-1998.
                                                                                                                                                                                                                                                                                                                                       US5830649-A
                                                                                                                                                                                                                                                                                                                                                                      Synthetic.
                                                                                   human galactokinase
                                                                                                                                                                                                                                                                                            26-MAY-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                13-JAN-1999
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AGCAGCCGAGGCCACCAAGAG 411
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                      Conservative
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                                                                                                                                                                                                                              Stambolian
                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                    human; mutation; detection;
                                                                                                                                                                                                                                                                       95US-00451778
                                                                                                                                                                                                                                                                                             95US-00451778.
                                                                                                                                                                                                                                                                                                                                                                                           primer;
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                                                                                     deficiency
                               0.3%;
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                      <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 14.6; DB 1;
Pred. No. 1.1e+03;
                                Score 14.6;
Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                      Mismatches
                                                                                                                                                                        based on activity.
                                                                                                                                                                                    based
                                 1.1e+03
                                           DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Other;
                                                                                                                                                                                                                                                                                                                                                                                                      diagnosis; treatment;
                                                                                                                                                                                    comparison with wild-type
                                          Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                      Indels
                                                                                               and treatment
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RESULT 1690
AAV62472
ID AAV6247
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AAV6247
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AC AAV6247
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AC AAV6247
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CAAV6247
AC AAV6247
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     밁
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local
                                                                                          dependent
allergic i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Receptor protein; ligand; therapeutic agent; breast cancer; AIDS; prostate cancer; ovarian cancer; follicular lymphoma; p53 mutation; brain tumour; bladder carcinoma; cervical cancer; intestinal cancer; lung cancer; gastric cancer; herpesvirus; adenovirus; poxvirus; human; H. pylori infection; varicella-zoster virus; human papillomavirus; staphylococcal; influenza virus; systemic mycosis; bacterial pneumonia; bacterial periostitis; viral encephalitis; diabetes mellitus; sepsis; adult respiratory distress syndrome; leukaemia; malignant melanoma; multiple myeloma; non-Hodgkin lymphoma; peptic ulcer; septic shock; tuberculosis; inflammation; arthritis; hepatitis; allergic rhinitis; pollen allergy; inflammation; arthritis; hepatitis; altocimmune disease; rheumatoid arthritis; disseminated lupus erythematosus; bronchial asthme Sjogren's disease; glomerulonephritis; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           This is a reverse PCR primer designed for use with a forward primer (see AAV52638) in the PCR amplification of exon 4 and the flanking introns of the human hepatocyte nuclear factor-1 alpha (HNF-1 alpha) gene (see AAV52625). Mutations of the HNF-1 alpha gene have been identified by amplifying (see AAV52632-51) and sequencing the appropriate exon. The invention concerns the identification of genes responsible for non-insulin dependent diabetes mellitus (NIDDM) for use in diagnostics and therapeutics. It demonstrates that the MODY3 (maturity-onset diabetes of the young) locus is the HNF-1 alpha gene, Analysis of mutations in the
                                                                                                                                                New dendritic cell receptor belonging to TNF receptor family treat e.g. cancer, AIDS, bacterial and viral infections, ins
                                                                                                                                                                                                                                                 WPI; 1998-544608/47.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            24-APR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       28-OCT-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human dendritic cell receptor protein encoding cDNA amplifying primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAV62472 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                    17-SEP-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                25-APR-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 21 BP; 4 A; 4 C; 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HNF-1 alpha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example
                                                                                                                                                                                                                                                                                                                                                                        (TAKE ) TAKEDA CHEM IND LTD.
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                                                                                                                          g. cancer, AIDS, bacterial and viral infection
of diabetes mellitus, peptic ulcer, sepsis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2:
                                                                                              immunological disorders.
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                                                                                                                                                                                                                                                                                                          Shintani A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Page
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.3%;
llarity 81.0%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                 97JP-00109798
97JP-00251867
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                                                                                                                                                                                                                                                                                                      Horiguchi
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Pred. No. 1.
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Example 3;

Page 37; 65pp; English

Claim

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Page 92; 310pp; English.

AAX09121-X10268 are allele-specific oligonucleotide primers used in

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RESULT 1691
AAX10021
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CC CDNA encoding a receptor protein derived from a human dendritic cell. The Creeptor protein or its fragment or salt can be used to determine a CC ligand to it, and for screening a compound which alters binding CC properties between it and a ligand. The compound is used for therapeutic groups of the therapeutic agents are used to treat cancer (breast cancer, CC prostate cancer, ovarian cancer, follicular lymphoma, cancer accompanied by p53 mutation, brain tumour, bladder carcinoma, cancer of uterine CC cervix, cancer of large intestine (carcinoma of colon and rectum), noncer and small cell lung cancer and gastric cancer), AIDS, infections (e.g. herpesvirus, adenovirus, poxvirus, H. pylori, varicella-zoster CC virus, human papillomavirus, active, staphylococcal and influenza virus infections and severe systemic mycosis, acute bacterial periostitis, acute viral encephalitis, adult respiratory distress syndrome, bacterial penemennia, chronic lymphocytic leukaemia, chronic myclogenous leukaemia, CC insulin-dependent diabetes mellitus (type 1), malignant melanoma, CC insulin-dependent diabetes mellitus (type 1), malignant melanoma, CC inflammation (e.g. arthritis and hepsical diseases (e.g. atopic conflammation (e.g. arthritis and hepsical histories and sollen allergy), inflammation (e.g. arthritis and hepsitis), autoimmune diseases (e.g. crheumatoid arthritis, disseminated lupus erythematosus and Sjogren's contents of the content and bronchial asthma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local
                                                        testing
                                                                                        New isolated
                                                                                                                                                                                                                                                                                                                                                              Synthetic.
                                                                        determining
                                                                                                                       WPI; 1998-286974/25.
                                                                                                                                                      Lander
                                                                                                                                                                                   (WHED ) WHITEHEAD INST BIOMEDICAL
                                                                                                                                                                                                                   06-NOV-1996;
                                                                                                                                                                                                                                                05-NOV-1997;
                                                                                                                                                                                                                                                                                14-MAY-1998.
                                                                                                                                                                                                                                                                                                             WO9820165-A2
                                                                                                                                                                                                                                                                                                                                                                                         treatment;
                                                                                                                                                                                                                                                                                                                                                                                                         autoimmune
                                                                                                                                                                                                                                                                                                                                                                                                                        detection;
                                                                                                                                                                                                                                                                                                                                                                                                                                      Polymorphism; biallelic; human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human biallelic polymorphic marker downstream primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    24-MAR-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAX10021 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Primers AAV62468 to AAV62477 were used for the PCR amplification of
                                                                                                                                                                                                                                                                                                                                            sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        768
                                                                                                                                                      ES,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       l Similarity
17; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TACAAGAAGGAAAACATGGGG 788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TTCTAGAAAGTAAACATGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21
                                                      ed nucleic acid segments from the human g polymorphic forms for use in e.g. fore phenotypic typing for disease.
                                                                                                                                                                                                                                                                                                                                                                                                    sm; biallelic; human; forensic; paternity testing; disease;
phenotypic typing; characteristic; infection; hereditary;
disease; cancer; inflammation; drug; therapy; medicament;
                                                                                                                                                                                                                                                                                                                                                                                         marker; primer; ss.
                                                                                                                                                    Wang D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                  97WO-US020313
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2 C;
                                                                                                                                                      Hudson
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length
                                                                                       genome
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                                                                       used for
paternity
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1. The
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11-MAR-1998

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RESULT 1688
AAT76190/c
ID AAT7619
XX AAT7619
AC AAT7619
XX BYNThet
XX WO96401
XX HO96401
XX DP 19-DEC.
XX PR 06-JUN.
XX PR 07-JUN.
XX PR 07-JUN.
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                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local S
Matches 17
                                                                                                                                  Asthma;
chronic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic.
Multiple s
                                                                                                                                                                                                                                                                                                                                                                                                                                    sequences are associated with multiple sclerosis and some are also associated with rheumatoid arthritis. Nucleic acid sequences from the MSRV-l virus can be used in the diagnosis of multiple sclerosis and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New viral material and nucleotide fragments associated with sclerosis and rheumatoid arthritis - also related peptide(s) antibodies, used for diagnosis, treatment and as vaccines.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This primer is used as a first strand cDNA synthesis and with primer AAT96487 as a PCR amplification primer for the isolation of the multisclerosis related virus 1B (MSRV-1B) clone GM3 (AAT96472). MSRV-1B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Multiple sclere amplification;
             07-JUN-1995;
                                                                                                                                                                                                                                             AAT76190 standard;
                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Perron H, Beseme F, Komurian-Pradel F,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      03-AUG-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              02-AUG-1996;
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                                    06-JUN-1996;
                                                                                    WO9640162-A1
                                                                                                           Synthetic
                                                                                                                                                                     Human IL4 receptor antisense oligonucleotide.
                                                                                                                                                                                             12-SEP-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20-FEB-1997.
                                                                                                                                                                                                                                                                                                                               3581
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                                                                                                                                                                                                                                                                                                        _
                                                                                                                                                                                                                                                                                                                                                       l Similarity
17; Conserv
                                                                                                                                  airway epithelium; adenosine free; cystic fibrosis; obstructive pulmonary disease; bronchitis; interleukin;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BIO MERIEUX.
                                                                                                                                                                                                                                                                                                                              ccreacirccricccraaccc 3601
                                                                                                                                                                                                                                                                                                       CCTGAGTTCTTGCACTAACCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    sclerosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     sclerosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           amplify MSRV-1 clone GM3.
                                                                                                                                                                                                                                                                                                                                                                                                                                 arthritis
                                                                                                                                                                                                                                                                                                                                                      0.3%;
ilarity 81.0%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                     BP; 4 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Page 51; 188pp; French.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                             (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        rheumatoid
               95US-00474497
                                     96WO-US009306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   associated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       related virus; env; pol; gag; matoid arthritis; diagnosis.
                                                                                                                                                                                                                                             DNA;
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                                                                                                                                                                                                                                              ВP
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Pred. No. 1.1e
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                      G; 6 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    retrovirus
                                                                                                                                                                                                                                                                                                        21
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                                                                                                                                                                                                                                                                                                                                                                                                      U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mandrand
                                                                                                                                                                                                                                                                                                                                                                    .1e+03;
                                                                                                                                                                                                                                                                                                                                                                               DB 1;
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6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   primer;
                                                                                                                                                                                                                                                                                                                                                                             Length 21;
                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PCR;
                                                                                                                                                                                                                                                                                                                                                       0
                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        multiple
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10-SEP-1996; 02-OCT-1996; 30-OCT-1996;

96US-0025719P. 96US-0028056P. 96US-0029679P.

Bell GI,

Yamagata

<u>,</u> 7

Kaisaki

Ę,

Furuta

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(ARCH-)

ARCH

DEV CORP.

WO9811254-A1

19-MAR-1998

10-SEP-1997;

97WO-US016037.

Synthetic.

Homo

sapiens

transcription factor; maturity onset diabetes NIDDM; diagnosis; therapy; PCR; primer; ss.

epatocyte nuclear factor 1 alpha; HNF-1 alpha;

21-DEC-1998

(first entry)

depatocyte nuclear factor 1 alpha gene

exon 4 reverse

PCR primer. human

ဝှ

young;

diabetes;

MODY3;

Isolated nucleic acid encoding hepatocyte nuclear factor 1-alpha and beta - useful for detecting susceptibility for non-insulin dependent diabetes, especially maturity-onset diabetes of the young.

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RESULT 1689
AAV52639/c
ID AAV5263
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Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            which involves the topical administration of an essentially adenosine free antisense oligonucleotide (ON) to the airway epithelium of the subject. The present sequence is an antisense oligonucleotide specific for the human IL4 receptor. The method can be used to treat airway diseases such as cystic fibrosis, asthma, chronic obstructive pulmonary disease, bronchitis and other airway diseases characterised by an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 21 BP; 0 A; 11 C; 4 G; 6 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A method for treating airway disease in a subject has been produced, which involves the topical administration of an essentially adenosir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Treatment of airway diseases such as asthma - by topically applying adenosine-free antisense oligo:nucleotide to airway epithelium of
                                                                                                                                                                                                                                                                                                                                                                                    AAV52639
                                                                                                                                                                                                                                                                                                                                                                                                          AAV52639 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   preventing adenosine-induced reactive airways
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 5; Page 29; 71pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       inflammatory response. By eliminating adenosine from the antisense ON, its liberation upon antisense degradation is prevented, thereby
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (UYEC-) UNIV EAST CAROLINA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2064 GGGAACAAGGGAGCCGTGGGG 2084
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GAGAACAACGGAGGCGCGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                           DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                            21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 14.6;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               bronchoconstriction
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4
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SSSSSS
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                                                                                                                                                                             This primer is used in the construction of a plasmid pIK.F7 is used in the construction of a retroviral packaging plasmid used for the production of high titres of recombinant retrovirus in human cells. The retroviral packaging plasmid comprises a retroviral helper DNA sequence derived from a replication-incompetent retroviral genome that encodes, in trans, all virion proteins required for packaging such a retroviral vector. The helper DNA sequence encodes a ecotropic Moloney murine leukaemia virus (MMLV) or gibbon ape leukaemia virus (GALV) gag and pol; and a xenotropic, amphotropic, ecotropic or polytropic envelope protein. The packaging plasmids, designated KAT plasmids, are used with a second retroviral vector encoding a foreign gene of interest to produce mammalian cells with retroviral supernatants that express, escued to produce the retroviral supernatants that constitutively the product of the packaging proven factor or coagulation factor. The plasmids are useful in construction of stable cell lines that constitutively the product of the product o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
Matches 17; Conserv
                              produce the retroviral proteins required in trans for the production of retrovirus particles: gag, pol and env. The stable producer cells continue to produce high titre retrovirus indefinitely in the absence of drug selection due to the stable integration of both packaging function and virus vector. The retroviral vector plasmids are constructed with sequences enabling the episomal persistence without the need for stable integration of the vector plasmid. The Env gene determines the host range
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       This sequence is an example of such a triple-helix forming oligomer. The oligonucleotide preferably binds to a sequence present in the plasmid to be purified, especially in a marker gene or the origin of replication
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cells,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              High efficiency retroviral
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21-AUG-1995;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAT97366 standard; DNA; 21 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            retroviral packaging system; human; virion protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (CELL-) CELL GENESYS INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           primer;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          haematopoietic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                157pp; English
  12
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stem cells
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Other;
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s with foreign gener
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AAT96546
ID AAT9
XX
AC AAT9
XX

AAT96546 standard; cDNA;

21

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AAT96546;

RESULT 1687

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                                          Query Match
Best Local S
Matches 17
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Best Local S
Matches 17
                                                                                                            manifestations of septic shock, e.g. inflammation, and vascular and tissue defects. They are also useful in the treatment of septic shock associated diseases, e.g. adult respiratory distress syndrome, multiplorgan failure etc. (Updated on 25-MAR-2003 to correct PF field.)
                                                                                                                                                       The sequences given in AAT58071-85 represent oligonuclectides which are antisense to sequences contained in the pre-mRNA or mature mRNA transcript of human intercellular adhesion molecule-1 (ICAM-1). These oligonuclectides may be used for treating septic shock and the
                                                                                        Sequence
                                                                                                                                                                                                                                                                                                Lee C,
                                                                                                                                                                                                                                      Anti-sense oligo:nucleotide(s) for blocking ICAM-1 mRNA translation treating septic shock, adult respiratory distress syndrome etc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Antisense; pre-mRNA; mature mRNA; vascular defect; tissue defect; human intercellular adhesion molecule-1; ICAM-1; inflammation; adult respiratory distress syndrome; multiple organ failure; septic shock; ss.
                                                                                                                                                                                                                                                                           WPI; 1997-033603/03
                                                                                                                                                                                                                                                                                                                                              24-JUL-1992;
                                                                                                                                                                                                                                                                                                                                                                    12-OCT-1993;
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                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic
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18-MAR-1997
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  [CAM-1 antisense oligonucleotide
               555 GCGGAGGAGCTGCTTTCCAGG
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17; Conserv
                                            l Similarity
17; Conserv
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                                            Conservative
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(first en
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                                                                                                                                                                                                                                                                                                                                                                    93US-00136118
                                                                                        0 A;
                                                                                                                                                                                                                19; 16pp; English.
                                                                                                                                                                                                                                                                                                Bradley
                                                    0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           entry)
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                                                                                        σ
                                                                                        C; 10 G; S T; 0 U; 0 Other;
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                                          0
                                                      Score 14.6;
Pred. No. 1.
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                                          Pred. No. 1.1
0; Mismatches
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Pred. No. 1
                     575
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     #2
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                                                        .1e+03
                                                                 DB 1;
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                                                                 Length
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                                            Indels
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                                          Gaps
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RESULT 1683
AAT74063
ID AAT7406
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Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Oligonucleotides AAV05343-63 are used as PCR primers and probes in the construction of various retroviral psi-packaging plasmids, using plasmid pIK1.1 (see AAV05335-42) as a base. The retroviral packaging plasmids are used to transfect a cell which also comprises at least one retroviral helper DNA sequence derived from a replication incompetent retroviral genome. The helper sequence encodes in trans, all virion proteins required for packaging a replication-incompetent retroviral vector and for producing virion proteins which package the replication-incompetent retroviral vector. The retroviral DNA sequence does not encode the native enhancer and/or promoter of the viral 5' long terminal repeat (LTR), and lacks both the psi function sequence responsible for the packaging helper genome and the 3'LTR. The method can be used to transduce primary human realls in the force of the viral sequence to transduce primary human in the force of the packaging helper and the state of the packaging helper than the sequence and the state of the packaging helper than the sequence and the state of the packaging helper than the sequence and the state of the packaging helper than the sequence and the state of the packaging helper than the sequence and the state of the packaging helper than the sequence and the state of the packaging helper than the sequence and the state of the packaging helper than the sequence and the state of the packaging helper than the sequence and the state of the packaging helper than the sequence and the state of the packaging helper than the sequence and the state of the packaging helper than the sequence and the state of the packaging helper than the sequence and the state of the packaging helper than the sequence and the state of the packaging helper the sequence and the state of the packaging helper than the sequence and the sequence and the state of the packaging package the sequence and the sequence a
                                                                                                                                                                                                                                                                                                                              29-JAN-1996;
29-NOV-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic.
Human herpesvirus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Transduction
                                                                                                                                                                                                                                                                                                                                                                                                                                   31-JUL-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO9727208-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Kaposi sarcoma;
vaccine; vMIP; F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Kaposi sarcoma-associated virus vMIP-I region amplifying primer A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       27-AUG-2003
23-MAR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAT74063;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAT74063 standard; DNA; 21
                                                                                                                                         Isolated nucleic acid encoding polypeptide of herpes viwith Kaposi sarcoma - useful for treatment, prevention
                                                                                                                                                                                                        WPI; 1997-393610/36.
                                                                                                                                                                                                                                                                                       (UYCO ) UNIV COLUMBIA NEW YORK.
                                                                                                                                                                                                                                                                                                                                                                                          28-JAN-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         sduction of mammalian retroviral packaging
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    264 CCCCCCTCTCTCTCTTTCTC 284
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at high efficiencies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BP; 2 A; 12 C; 1 G; 6 T; 0 U; 0 Other;
                                                                             Page 115; 226pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (revised)
(first en
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; herpes virus;
KSHV; PCR prime
                                                                                                                                                                                                                                                                                                                              96US-00592963.
96US-00757669.
                                                                                                                                                                                                                                                                                                                                                                                          97WO-US001442
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     15;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  35pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.3%;
                                                                                                                                                                                                                                              Russo JJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           plasmids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cells - with supernatant of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            <u>,</u>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 14.6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              HIV; antibody; treatment; leukaemia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  No.
                                                                                                                                                                                                                                              Edelman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  .le+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 1; Length 21;
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                                                                                                                                                                                                                                              Moore
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                                                                                                                                         virus
on and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cells transfected
                                                                                                                                                                                                                                              PS
                                                                                                                                         associated diagnosis (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                           얁
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CC number of terminal repeat (TR) units. The LUR includes many conserved CC open reading frames (ORF). ORF K4 encodes vMIP-II which can inhibit CCR-5 CC dependent HIV-1 replication. The viral MIP (vMIP) like proteins have CC conserved C-C dimer signatures characteristic of beta-chemokines and a conserved C-C dimer signatures characteristic of beta-chemokines and a conserved C-C dimer signatures characteristic of beta-chemokines and a conserved C-C dimer signatures characteristic of beta-chemokines and and in unclaid acid are useful in standard hybridisation and immune assays for diagnosis of Kaposi sarcoma or for monitoring treatment. Antisense CC molecules and triplex forming oligonucleotides that hybridise to the KSHV CC mucleic acid, and antiviral agents that bind specifically to a KSHV CC polypeptide are used to treat Kaposi sarcoma. The antibodies can be used CC for treatment or prevention of the disease. The KSHV polypeptide is cueful in subunit vaccines and also to inhibit replication of human CC immunodeficiency virus. The KSHV nucleic acid may also be implicated in a commune of other lymphoproliferative diseases such as lymphomas, lymphatic CC leukaemias, splenomegaly, mycosis fungoides and the polypeptide is useful as an anti-inflammatory agent for treating autoimmune disease, especially constant of the correct OS field.)
Sequence
21 BP; 4 A; 8 C; 3 G; 6 T; 0 U;
      0 Other;
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Query Match
Best Local S
Matches 17
              726 TCCATGAGGTTCTTCACCAAG 746
_
                                  1 Similarity
17; Conserv
TGCATCAGCTTCTTCACCCAG
                                   Conservative
                                            0.3%;
                                   0
                                             Score 14.6;
Pred. No. 1.
21
                                    Mismatches
                                             .1e+03
                                                     DB 1;
                                                    Length
                                    Indels
                                   0,
                                    Gaps
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0

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RESULT 1684
AAVO5814/c
ID AAVO5814/c
ID AAVO581
XX AAVO581
XX Durific
KW Cellula
KW cellula
KW cimmobil
KW origin
XX Synthet
XX Synthet
XX Synthet
XX Synthet
XX PF 17-MAR-
XX (RHON)
XX PF 17-MAR-
XX Disclo:
XX Disclo:
XX Disclo:
XX Disclo:
XX Disclo:
XX This 8:
CC purify:
CC stage (
CC sta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Oligonucleotide #2 for purification of plasmid DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAV05814;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        entry)
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origin of cellular therapy; affinity chromatography; immobilised oligonucleotide; triple-helix; Purification; replication; double-stranded DNA; pharmaceutical purity; gene the 88. marker gene; gene therapy;

Synthetic.

WO9735002-A1

17-MAR-1997; 25-SEP-1997. 97WO-FR000472

(RHON) RHONE - POULENC RORER SA

21-MAR-1996;

96FR-00003519.

۵, Ollivier M;

WPI; 1997-480209/44.

Purification of double-stranded DNA to pharmaceutical ceramic hydroxy:apatite and affinity or ion-exchange particularly for plasmids intended for gene therapy. l purity - using
chromatography,

Disclosure; Page 37; 51pp; French.

This sequence represents a poly-CTT oligonucleotide used in a method of purifying double-stranded DNA to pharmaceutical purity, especially for use in gene or cellular therapy. The method comprises at least one stage of chromatography on a column of ceramic hydroxyapatite (HA), and anothes stage comprising an affinity chromatography purification, preferably with an immobilised oligonucleotide able to form a triple-helix structure. HA), and another preferably with

This primer is used for the PCR amplification of the vMIP-II region of the Kaposi sarcoma-associated herpes virus (KSHV or HHV8) genome sequence. The KSHV genome has a long unique region (LUR) flanked by a

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RESULT 1681
AAT32772/c
ID AAT3277
XX
AC AAT3277
XC AAT3277
XC T18-FEB-
XX Triple
XX Triple
KW Triple
KW gurific
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AAT04610/c
                                                                                                                                                      Matches 17; Conserv
                                                                                                                                                               Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best Local Similarity 81.0 Matches 17; Conservative
Triple helix; triplex formation; Hoogsteen base pairing; plasmid; purification; double-stranded DNA; homopyrimidine; polypurine; ss
                                                                                                                                                                                                                                                                        Nucleic acid contg. the aromatase cytochrome P450 gene I.4 promoter provides expression specifically in breast adipose tissue and stromatells stimulated with glucocorticoid.
                         Triple helix-forming oligonucleotide (CTT)7.
                                            18-FEB-1997
                                                                           PAT32772 standard; DNA;
                                                                                                                                                                                        Sequence 21 BP; 5
                                                                                                                                                                                                               Primers 17 (AAT04610) and P450arom primer 24 (AAT04611) are based on exon II of the human CYP19 (aromatase cytochrome P450) gene. They were used in RACE to obtain DNA clones (AAT04604-08) contg. new 5'-untranslated exons of the CYP19 gene possibly involved in regulation of oestrogen
                                                                                                                                                                                                                                                                                                                                                                                                                                           Aromatase; cytochrome P450; CYP19; promoter; adipose; stromal breast cancer; endometrial cancer; oestrogen; rapid amplification of cDNA ends; RACE; primer; ss.
                                                                                                                                                                                                                                                         Example I; Col 5; 23pp; English
                                                                                                                                                                                                                                                                                                           WPI; 1995-310938/40.
                                                                                                                                                                                                                                                                                                                           Mendelson CR,
                                                                                                                                                                                                                                                                                                                                                                            14-SEP-1993;
                                                                                                                                                                                                                                                                                                                                                                                                             US5446143-A.
                                                                                                                                                                                                                                                                                                                                                                                                                              Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CYP19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAT04610 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                             29-AUG-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 06-MAR-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAT04610;
                                                                                                                                                                                                                                                                                                                                            (TEXA ) UNIV
                                                                                                                                    4454 AACACTCATGATGTGCCAAGT 4474
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                                                                                                                      AACACTCATTATCAGCRAAGT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCACCCCTCACTCTGCTTCTC
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                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                            TEXAS SYSTEM
                                           (first entry)
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                                                                                                                                                                                                                                                                                                                           Simpson
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RACE
                                                                                                                                                           0.3%;
                                                                                                                                                                                       2 C; 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  81.0%;
                                                                                                                                                                                                                                                                                                                           ER,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              P450arom primer
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                                                                            BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ВP
                                                                                                                                                      0
                                                                                                                                                                                       G; 8 T; 0 U; 1 Other
                                                                                                                                                                                                                                                                                                                            Mahendroo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0,
                                                                                                                                                              Score 14.6;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pred. No. 1.1e+03;
0; Mismatches 4;
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                                                                                                                                                      Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                17.
                                                                                                                                                            DB 1;
.1e+03;
                                                                                                                                                                     Length
                                                                                                                                                      Indels
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                                                                                                                                                                                                                                                                                  stromal
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Best Local S
Matches 17
WPI; 1997-558140/51
                 Dull TJ,
                                                  11-JUN-1993;
                                                                  10-JUN-1994;
                                                                                   11-NOV-1997.
                                                                                                    US5686279-A.
                                                                                                                     Synthetic.
                                                                                                                                                             PCR primer used
                                                                                                                                                                               21-MAY-1998
                                                                                                                                                                                                AAV05359;
                                                                                                                                                                                                                                                                                                                          Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Purificn.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         08-NOV-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Synthetic
                                 (CELL-)
                                                                                                                                                                                                                                                                                                                                                                                                                     Double-stranded
                                                                                                                                                                                                                                                                                                                                                                                                                                                             hybridising
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 1996-300660/30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Crouzet
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         16-DEC-1994;
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                                                                                                                                                                                                                                                                                          1 Similarity
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                Qin L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Scherman
                                                                                                                                                                                                                                                                                                                          B₽;
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acids, proteins, endotoxins, nucleases, etc. by passing the mixture over a support to which an oligonucleotide is covalently attached; the oligonucleotide is able to form a triple helix by hybridisation with a specific sequence present in the dsDNA. The present sequence is a preferred example of a suitable oligonucleotide which forms a triplehelix with a polyGAA sequence in dsDNA. The polyGAA sequence may be present naturally, e.g. in a plasmid origin of replication, or can be introduced artificially. The method is particularly suited to
                                                                                                                                                                                                                                                                                                                           pIK1.1; psi-packaging vector; retroviral packaging plasmid;
replication incompetent; retroviral genome; PCR primer; amplify;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAV05359 standard; DNA; 21 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          purification of plasmid DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (RHON ) RHONE POULENC RORER SA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2800 AGGAAGGAGAAATGAAGAAG 2820
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9; Page 29; 34pp; French.
                                             CELL GENESYS INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAGAAGAAGAAGAAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    of double stranded DNA by triple helix formation - ng immobilised oligo-nucleotide to specific sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                           93US-00076299
                                                                                                                                         94US-00258152
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      94FR-00015162
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (ds) DNA can be purified from
  Zsebo
                                                                                                                                                                                                                                                                                                                                                                                                 produce
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            7 C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.3%;
  3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Wils P;
                                                                                                                                                                                                                                                                                                                                                                                               retroviral packaging plasmids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 14.6; DB 1;
Pred. No. 1.1e+03;
Finer MH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            14 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
Farson DA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     complex mixtures of nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
  Roberts
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RESULT 1678
AAQ74335
ID AAQ7433
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Best Local Simi
Matches 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   the design of allele and group specific primers for use in a method for determining HLA-DR beta sub-type in a nucleic acid sample. The method allows specific nucleic acid sequences of the second exon of HLA-DR beta genes to be amplified then probed for identification of polymorphic sequences. The amplified DNA is useful for typing homozygous or heterozygous samples from a variety of sources and for detecting allelic variants not distinguishable by serological methods. The typing system can be used in a reverse dot blot format which is simple and rapid to perform, produces detectable signals in minutes and can be utilised in tissue typing, determination of individual indentity and identifying disease susceptible individuals. See also AAQ26092-Q26367. (Updated on 25-MAR-2003 to correct PN field.)
       AAQ74334 and AAQ74335 are a pair of primers for the PCR amplification of the human mAb light chain V1 region, which was used in the construction of the plasmid pIK.K/L-int. The plasmid was constructed to direct the expression of a chimeric fusion protein for receptor associated signal transduction pathways. The chimeric DNA sequences could be used to modify lymphocytes and haematopoietic stem cells as precursors to a number of important cell types. (Updated on 25-MAR-2003 to correct PF field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human mAB light chain V1 region; PCR primer; pIK.K/L-int; receptor associated signal transduction pathways; chimeri
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human mAb
                                                                                                                                                           New chimeric DNA encoding chimeric signal transduction pathways.
                                                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     25-MAR-2003
27-JUN-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 21
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                                                                                                                                                                                                                                                                  (CELL-)
                                                                                                                                                                                                                                                                                                             14-DEC-1990;
                                                                                                                                                                                                                                                                                                                                         09-DEC-1992;
                                                                                                                                                                                                                                                                                                                                                                       25-OCT-1994
                                                                                                                                                                                                                                                                                                                                                                                                    US5359046-A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAQ74335 standard; cDNA; 21
                                                                                                                             Example
                                                                                                                                                                                                        WPI; 1994-341065/42
                                                                                                                                                                                                                                      Zsebo
                                                                                                                                                                                                                                                                                                                                                                                                                                                              lymphocytes; haematopoletic stem
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                                                                                                                                                                                                                                    Capon DJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      light chain Vl region
                                                                                                                             Fig 10; 38pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BP; 2 A; 3 C; 13 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                CALIFORNIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    is that of the DRB3 3'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (revised)
                                                                                                                                                                                                                                                                                                             90US-00627643
                                                                                                                                                                                                                                                                                                                                           92US-00988194
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                                                                                                                                                                                                                                   Irving
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                English
                                                                                                                                                                                                                                    BA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ВÞ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 14.6;
Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PCR primer.
                                                                                                                                                                                                                                    Weiss A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                           duction pathways;
cells; ss.
                                                                                                                                                                         proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   downstream intron which was used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1.1e+03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1;
                                                                                                                                                                                                                                    Roberts MR
                                                                                                                                                                           •
                                                                                                                                                                         for receptor-associated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          chimeric DNA;
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RESULT 1679

AAC76242

ID AAC7624

XX AAC7624

XX AAC7624

XX Primer

XX Prim
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Best Local Similarity
                                                                                                            This primer is used in production of a retrovirus vector and packaging plasmid system. The primer is used, along with primer AAQ76241, to amplify an HIV gyd1 human monoclonal antibody IgG1 98.6 variable region light chain gene from plasmid pIK.98.6-kappa-FL, by polymerase chain reaction. A SalI site is placed at the 3'-end of the sequence, followed by ligation along with linkers AAQ76243-44 between EcoRI and BglII sites of plasmid pIK1.1, to give plasmid pIK.K/L-int. The resulting clone is used with heavy chain sequences to produce a single chain antibody and CD -4-zeta chimeric receptor gene in plasmid pIK.F5. This type of recombinant vector may be used along with new retrovirus packaging plasmids in a system for high-efficiency transduction of mammalian target cells with foreign genes (e.g. for gene therapy) by transient cotransfection of a packaging cell culture by a replication-incompetent helper plasmid and a recombinant vector, to produce high-titer with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 21 BP; 2 A; 12 C; 1 G; 6 T; 0 U;
      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Efficient transduction of mammalian cells with foreign genes - using replication defective recombinant retroviral vector produced in mammalian cells transfected with packaging plasmid and retroviral vector, providing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              antibody engineering; chimeric receptor; immunoadhesin; CD4-zeta; AIDS; plasmid pIK.F5; gene therapy; transduction; transfection; mammal; packaging cell culture; replication-defective; helper plasmid; coculture.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Primer; retrovirus; virus; vector; packaging; human; IgGl; 98.6; variable region; monoclonal antibody; HJV; gp41; light chain; cDNA; PC: polymerase chain reaction; cloning; plasmid pIK1.1; Sal1; plasmid pIK.98.6-kappa-FL; plasmid pIK.K/L-int; single chain antibody;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        12-MAY-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAQ76242 standard;
                                                              replication-defective retrovirus, and coculture e.g. human target cells for transduction
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Disclosure; Page 31;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       high viral titres.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 1995-036468/05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       11-JUN-1993;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        gene transfer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Primer for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAQ76242;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Finer MH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WO9429438-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               10-JUN-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (CELL-)
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      BP; 2 A;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               94WO-US006667
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.3%;
   12 C; 1 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            92pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Dull TJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          monoclonal antibody 98.6 light chain cDNA.
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Pred. No. 1.
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      6 T; 0 U;
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      0 Other;
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Query Match

0.3%;

Score 14.6;

DB 1;

Length

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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention relates to a prophylactic and therapeutic agent of diabetic nephropathy, chronic renal failure, nephritis, glomerulonephritis, interstitial renal disease, or gastrogenic oedema, comprising endothelial differentiation gene (EDG)-2, EDG-3, or EDG-5 receptors having a sequence shown in the specification. The agent is useful for preventing or treating diabetic nephropathy, chronic renal failure, nephritis, glomerulonephritis, interstitial renal disease, or gastrogenic oedema, and as a diagnostic agent for diagnosing these diseases. The present sequence is a PCR primer used in the
                                                                                                                                                                                                                                                                                                        Colony stimulating factor 1 receptor; CSF1R; polymorphic variant; cytostatic; gene therapy; malignant histicorytosis; isogene; myeloid malignancy; inflammatory disorder; transgenic animal; haplotype; genotype; human; allele specific oligonucleotide; ASO; primer; ss.
                       Novel polymorphic variants of colony stimulating factor 1 receptor useful in studying expression and function of the protein, useful for screening candidate drugs to treat diseases e.g. inflammatory disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      treating diabetic nepl
or gastrogenic edema,
Claim 15; Page 16;
                                                                                   WPI; 2002-075058/10.
                                                                                                                                                                    12-APR-2000; 2000US-0196411P.
                                                                                                                                                                                                12-APR-2001; 2001WO-US012044.
                                                                                                                                                                                                                                                       WO200179225-A2
                                                                                                                                                                                                                                                                                 Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                               Colony
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                                                                                                                                                                                                                                                                                                                                                                                                                                      AAS98774;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAS98774 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 1; SEQ ID
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Prophylactic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1313
                                                                                                                                                                                                                                                                                                                                                                             stimulating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          l Similarity
16; Conserv
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                                                                                                                                         GENAISSANCE PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GACAAGCCTGTTGTCATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GTCAAGACTGTTGTCATC
                                                                                                               Choi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP; 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.3%;
llarity 88.9%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    and therapeutic agent, useful for diagnosing, preventing or betic nephropathy, chronic renal failure, glomerulonephritis, ic edema, comprises endothelial differentiation gene 2, 3, 5
                                                                                                            JΥ,
                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NO 22; 121pp; Japanese.
164pp; English
                                                                                                             Koshy B;
                                                                                                                                                                                                                                                                                                                                                                             factor 1 receptor (CSF1R) oligonucleotide #140.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Σ
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Pred. No. 1.1e
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0 Other
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
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RESULT 1677
AAQ26341/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention describes a novel isolated polynucleotide (I) comprising a CC sequence which is a polynorphic variant (PV) of a reference sequence for CC colony stimulating factor 1 receptor (CSFIR) gene, found on The CC polypeptide are useful for improving the discovery and development of CC malignant histiccytosis, myeloid malignancies, and inflammatory disorders CC malignant histiccytosis, myeloid malignancies, and inflammatory disorders CC and the haplotypes can be used to validate CSFIR activity, e.g., and inflammatory disorders CC with CSFIR activity. Genotyping the CSFIR as a candidate target CC with CSFIR activity. Genotyping the CSFIR spendicted to be associated CC with CSFIR activity. Genotyping the CSFIR gene of an individual can also be used in developing diagnostic tests and therapeutic treatments. (I) is CC useful in studying the expression and function of CSFIR, and in CC expressing CSFIR protein for use in screening for candidate drugs to the variation on the biological activity and in studying the effect of the variation on the biological activity of CSFIR as well as on the CC binding affinity of candidate drugs targeting CSFIR. Antibodies are CC useful in a variety of diagnostic and prognostic formats and therapeutic can also the compounds. A transgenic animal is useful in studying expression of the CSFIR isogenes in vivo, for in vivo screening and testing of drugs targeted against CSFIR protein, and for testing the efficacy of the plenotypic effect of any particular CSFIR or haplotype the invention provides a method for identifying lead compounds that are more likely to show efficacy in clinical trials. This sequence is an allele specific CC oligonucleotide parimer used for detecting CSFIR gene polymorphisms, and the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local :
                                                                                                                                                                                                                       06-DEC-1991;
                                                                                                                                                                                                                                                                                                                                                                                         DRB3 3' downstream intron.
                                                                                                                                                                                                                                                                                                                                                                                                                           25-MAR-2003
04-JAN-1993
                                                                 WPI; 1992-234644/28
                                                                                                                Erlich HA,
                                                                                                                                                                                    06-DEC-1990;
                                                                                                                                                                                                                                                        25-JUN-1992.
                                                                                                                                                                                                                                                                                                                          Synthetic
                                                                                                                                                                                                                                                                                                                                                        Tissue typing;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAQ26341 standard; DNA; 21 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 15 BP;
                                                                                                                                                  (HOFF ) HOFFMANN LA ROCHE & CO
                                                                                                                                                                                                                                                                                        WO9210589-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    280 TTCTCTCTCTCTCTC 294
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    14;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYCTCTCTCTCTCT 1
                                                                                                                Begovich
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                         (revised)
(first entry)
                                                                                                                                                                                                                                                                                                                                                          identity determination; disease susceptible;
                                                                                                                                                                                    90US-00623098.
                                                                                                                                                                                                                       91WO-US009294.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     7 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  93.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0 C; 7 G; 0 T; 0 U; 1 Other;
                                                                                                                AB,
                                                                                                                Bugawan T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 14.6; DB 1;
                                                                                                                                                  AG F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                Griffith RL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
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Method for determining HLA-DR beta sub-type in DNA sample - amplification and hybridisation with probes and primers, use typing.

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I Ellerman K, Gangolli EA, Ge
I Herrmann JL, Halvorsen Y, J.
Larochelle WJ, Lepley DM, Li
Padigaru M, Patturajan M, Pet
Rothenberg ME, Shenoy SG.
                                                                                                                                                                                                                                                           RESULT 1675
ADP88372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to human NOVX polypeptides and the polynucleotides cancoding them. The invention also relates to antibodies specific to the NOVX polypeptides. The polypeptides, polynucleotides and antibodies are useful for manufacturing a medicament for treating a syndrome associated with a human disease, such as a pathology associated with the NOVX polypeptide. The sequences are useful for diagnosing, treating or preventing a NOVX-associated disorder, e.g., cancer, atherosclerosis, diabetes, Alzhelmer's disease, Parkinson's disease, graft-versus-host disease, scleroderma, hypertension, haemophilia, idiopathic thrombocytopenic purpura, immunodeficiencies, AlDS, dyslipidemia, cachexia, multiple sclerosis or fertility. The nucleic acids may be used as hybridisation probes, in chromosome mapping, in tissue typing, in pareventive medicine or in pharmacogenomics. This sequence represents a preventive medicine or in pharmacogenomics. This sequence represents
                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New human NOVX polypeptides and nucleic acid molecules, useful for diagnosing, preventing or treating NOVX-associated disorder, e.g. catherosclerosis, diabetes, Alzheimer's disease, Parkinson's disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (STON/)
(TAUP/)
(VERN/)
(VOSS/)
(ZHON/)
                                                                                                                     ss; PCR; primer; EDG-1 receptor; receptor;
endothelial differentiation gene; antidial
                                                                                                                                                                                           09-SEP-2004
                                                                                                                                                                                                                                                ADP88372 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example E; SEQ
            11-DEC-2003; 2003WO-JP015836
                                        24-JUN-2004.
                                                                                                                                                               Endothelial
                                                                                                                                                                                                                      ADP88372;
                                                                                          Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        primer used in analysis of expression of a human
                                                                                                                                                                                                                                                                                                                                   2750 ATTCTACCTGGAGTTCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2004-268786/25.
                                                                                                                                                                                                                                                                                                                                                                         16;
                                                                                                                                                                                                                                                                                                                   22 ATTCTTCCTAGAGTTCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                           invention.
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VERNET C A M.
VOSS E Z.
ZHONG M.
                                                                                                                                                                                                                                                                                                                                                                                       Similarity
                                                                                                                       differentiation gene; antidiabetic; nephrotropic
                                                                                                                                                               differentiation gene
                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                               BP; 7 A; 4 C;
                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ID NO 607;
                                                                                                                                                                                                                                                DNA;
                                                                                                                                                                                                                                                                                                                                                                                       88.9%;
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3, Dipippo VA, Edinger SR, Eisen A,
4, Gerlach V, Gorman L, Rothberg BG,
4, Ji W, Kekuda R, Khramtsov NV;
50, W, Li L, Macdougall JR, Miller CE,
61, M, Pena CEA, Peyman JA, Rieger DK;
63, Smithson G, Spaderna SK, Spytek K
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Anderson
                                                                                                                                                                                                                                                                                                                                                                                                                               6 G;
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                                                                                                                                                                                                                                                                                                                                                                                      Score 14.8;
Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                               5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              English.
                                                                                                                                                               receptor
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                                                                                                                                                                 EDG-4
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                                                                                                                                                               PCR
                                                                                                                                                                                                                                                                                                                                                                                                   Length
                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                               primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NOVX
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AGEE M L. ALSOBROOK J ANDERSON D W

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(BOLD/) (BUR) (CATT) (DIPI/) (ELIE/) (ECIMY) (ECAMY) (GEAR/) (GORM/) (CIRA/) (

LAROCHELLE W LEPLEY D M. KEKUDA R. KHRAMTSOV N V.

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JI W. HALVORSEN Y.

ELLERMAN K.
GANGOLLI E A.
GERLACH V.
GORMAN L.
ROTHBERG B G.
GUO X S.
HERRMANN J L.

BERGHS C.
BOLDOG F L.
BURGESS C E.
CATTERTON E.
DIPIPPO V A.
EDINGER S R.
EISEN A.

MACDOUGALL J F MILLER C E. ORT T.

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PADIGARU M.
PATTURAJAN M.
PENA C E A.
PEYMAN J A.
RIEGER D K.
ROTHENBERG M E
SHENOY S G.
SMITHSON G.
SMITHSON G.
SPADERNA S K.
SPYTEK K A.

M

28-MAY-2002; 2002US-0383534P.
28-MAY-2002; 2002US-038374P.
29-MAY-2002; 2002US-0383829P.
29-MAY-2002; 2002US-0384024P.
02-UUL-2002; 2002US-038332P.
06-AUG-2002; 2002US-0401315P.
07-AUG-2002; 2002US-0401788P.
20-AUG-2002; 2002US-0404676P.
23-AUG-2002; 2002US-0405400P.
23-AUG-2002; 2002US-0405684P.
23-AUG-2002; 2002US-04056887P.
23-AUG-2002; 2002US-0405698P.
23-AUG-2002; 2002US-0405698P.
23-AUG-2002; 2002US-0405698P.

15-MAY-2002; 16-MAY-2002; 17-MAY-2002;

15-MAR-2002; 15-MAR-2002; 17-APR-2002;

28-FEB-2002; 05-MAR-2002; 05-MAR-2002; 13-MAR-2002; 13-MAR-2002;

2002US-0353286P.
2002US-035959P.
2002US-0359671P.
2002US-0359954P.
2002US-0359954P.
2002US-0359954P.
2002US-0359954P.
2002US-0360924P.
2002US-0361028P.
2002US-0361264P.
2002US-0361264P.
2002US-0361264P.
2002US-0361264P.
2002US-0361264P.
2002US-0361264P.
2002US-0364238P.
2002US-0364978P.
2002US-0364978P.
2002US-0364978P.
2002US-0369941P.
2002US-03180941P.
2002US-0380941P.
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2002US-0380941P.
2002US-0380941P.
2002US-0380941P.
2002US-0380941P.
2002US-0380941P.

3-MAR-2002; 3-MAR-2002;

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Agee ML, Alsobroom, Dip
Burgess CE, Catterton E, Dip
Ellerman K, Gangolli EA, Ge
Herrmann JL, Halvorsen Y, J
Larochelle WJ, Lepley DM, I
I Padigaru M, Patturajan M,
I Rothenberg ME, Shenoy SG,
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06-AUG-2002;
07-AUG-2002;
20-AUG-2002;
23-AUG-2002;
23-AUG-2002;
23-AUG-2002;
23-AUG-2002;
                                                                                    New human NOVX polypeptides and nucleic acid molecules, useful for diagnosing, preventing or treating NOVX-associated disorder, e.g. catherosclerosis, diabetes, Alzheimer's disease, Parkinson's disease
The invention relates to human NOVX polypeptides and the polynucleotides encoding them. The invention also relates to antibodies specific to the
                                            Example D;
                                                                                                                                                                                                                                                                                                                 (AGEE/)
(ALSE/)
(ALSE/)
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(BERG/)
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(SEDD/)
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MACDOUGALL J J
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SPADERNA S K
SPYTEK K A.
STONE D J.
TAUPIER R J.
                                                                                                                                                                                                                                                                                                                                                                                      PADIGARU M.
PATTURAJAN M.
PENA C E A.
PEYMAN J A.
RIEGER D K.
ROTHENBERG M.
ROTHENBERG M.
SHENOY S G.
SMITHSON G.
SPADERNA S K.
SPYTEK K A.
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KHRAMTSOV N V.
LAROCHELLE W J.
LEPLEY D M.
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ELLERMAN K.
GANGOLLI E A.
GERLACH V.
GORMAN L.
ROTHBERG B G.
GUO X S.
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CATTERTON
DIPIPPO V
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ALSOBROOK
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2002US-0401785P.
2002US-0401786P.
2002US-0404676P.
2002US-0405400P.
2002US-0405684P.
2002US-0405698P.
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                                                                                                                                                                        ?, Anderson DW, Berghs C, Boldog FL; 1 E, Dipippo VA, Edinger SR, Eisen A; EA, Gerlach V, Gorman L, Rothberg BG, 2n Y, Ji W, Kekuda R, Khramtsov NV; DM, Li L, Macdougall JR, Miller CE, (2n M, Pena CEA, Peyman JA, Rieger DK; SG, Smithson G, Spaderna SK, Spytek K, Vernet CAM, Voss EZ, Zhong M;
                                           610pp; English.
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ID AD04271
XX Bclero(
XX Human;
XW Alzhein
XW Gancer
XW Cancer
XX US2004
XX US2004
XX US2004
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XX D25-MAR
XX D2-DEC
PR 03-DEC
PR 07-DEC
PR 07-DEC
PR 10-DEC
PR 11-DEC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cc 'Nov' polypeptides. The polypeptides, polynucleotides and antibodies are useful for manufacturing a medicament for treating a syndrome associated with a human disease, such as a pathology associated with the NOVX colypeptide. The sequences are useful for disgnosing, treating or preventing a NOVX-associated disorder, e.g., cancer, atherosclerosis, cdisease, scleroderma, hypertension, haemophilia, idiopathic clisease, scleroderma, hypertension, haemophilia, idiopathic chrombocytopenic purpura, immunodeficiencies, AIDS, dyslipidemia, cobesity, Crohn's disease, bronchial astima, anorexia, cancer-associated cachexia, multiple sclerosis or fertility. The nucleic acids may be used as hybridisation probes, in chromosome mapping, in tissue typing, in preventive medicine or in pharmacogenomics. This sequence represents a CC primer used in analysis of expression of a human NOVX polynucleotide of the invention.
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Best Local :
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  10-DEC-2001

11-DEC-2001

11-DEC-2001

11-DEC-2001

11-DEC-2001

11-DEC-2001

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12-DEC-2001

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17-DEC-2001

17-DEC-2001

18-DEC-2001

18-DEC-2001

19-DEC-2001
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05-DEC-2001;
07-DEC-2001;
07-DEC-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; NOVX; PCR; ss; cancer; atherosclerosis; diabetes; Alzheimer's disease; Parkinson's disease; graft-versus-host disease scleroderma, hypertension; haemophilia; disease; hrombocytopenic purpura; immunodeficiency; AIDS; idiopathic thrombocytopenic purpura; immunodeficiency; AIDS; dyslipidemia; obesity; Crohn's disease; bronchial asthma; anorexia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      02-DEC-2002;
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                           2001US-0336820P.
2001US-0338318P.
2001US-0338318P.
2001US-033899P.
2001US-0339514P.
2001US-0339517P.
2001US-0339517P.
2001US-0340981P.
2001US-0340981P.
2001US-034040P.
2001US-034040P.
2001US-034040P.
2001US-034040P.
2001US-0341760P.
2001US-0341760P.
2001US-0341760P.
2001US-0341760P.
2001US-0341760P.
2001US-0341760P.
2001US-0341760P.
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88.9%;
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The invention relates to an isolated polypeptide (designated NOVX, or CC NOV1-NOV127) comprising a sequence selected from 178 fully defined amino CC acid sequences (and their mature forms, variants and fragments). Also CC included are an isolated nucleic acid molecule encoding NOVX, a vector CC determining the presence or amount of the polypeptide or the nucleic acid molecule in or sample, methods for determining the presence of or CC predisposition to a disease associated with altered levels of expression CC if the above polypeptide or nucleic acid molecule in a first mammalian CC subject, a method for identifying an agent that binds to the above CC polypeptide, a method for identifying a potential therapeutic agent for CC expression or physiological interactions of the polypeptide, a method of a pathology that is related to aberrant CC expression or physiological interactions of the polypeptide, a method of CC expression or physiological interactions of the polypeptide, a method for modulator of activity or of latency or predisposition to a pathology associated with the polypeptide and a method for modulating CC the activity of the polypeptide cited above. The composition and methods CC are useful for diagnosing, preventing or treating diseases such as CC cachexia, cancer, neurodegenerative diseases, anorexia, cancer-associated CC disbetes, obesity, infectious diseases. These may also be used in CC chromosome mapping, tissue typing, preventive medicine and pharmacogenomics. The polypeptides are also useful as vaccines. The CC pharmacogenomics is an RTO-PCR (real time quantitative PCR) primer used CC casent sequence is an RTO-PCR (real time quantitative PCR) primer used CC cases and tissue specific expression of a NOVX mRNA.
Query Match
Best Local S
Matches 16
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Zerhusen BD, (Patturajan M, Fernandes ER, Anderson DW, Salsobrook JP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New NOVX polypeptides and nucleic acid molecules useful for diagnosing, preventing or treating NOVX-associated disorders, e.g. cancer, diabetes infection or obesity, and in chromosome mapping, tissue typing or
                                                                    Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             pharmacogenomics.
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(SPAD/)
(CATT/)
(LEIT/)
(ZHON/)
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(CASM/)
(MALY/)
(GERL/)
(LIUY/)
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(VERN/)
(GUOX/)
(TCHE/)
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SPADERNA S K.
CATTERTON E.
LEITE M W.
ZHONG H.
ALSOBROOK J P.
ALSOBROOK J P.
RIEGER D K.
BURGESS C E.
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GANGOLLI B A.
VERNET C A M.
GUO X S.
TCHERNEV V T.
FERNANDES E R.
CASMAN S J.
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GERLACH V.
LIU Y.
                  Similarity
                                                                    BP; 7
 Conservative
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Gusev VY, Ji W, Gorman L, Mill,
Gangolli EA, Vernet CAM, Guo X
, Casman SJ, Malyankar UM, Gerla
Spaderna SK, Catterton E, Leite
Lepley DM, Rieger DK, Burgess
                                                                    Α;
              0.3%;
                                                                  5 C; 3 G; 7 T; 0 U; 0 Other;
0;
                  Score
Pred.
 Mismatches
                  No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Taupier RJ, Pena CEA, Li l

rman L, Miller CE, Kekuda R;

CAM, Guo XS, Tchernev VT;

ax UM, Gerlach V, Liu Y;

con E, Leite MW, Zhong H;

DK, Burgess CE;
                  1.1e+03
                                  DB 1;
                              Length 22;
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0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            diabetes,
Gaps
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0;
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음 성

18

TCTGAATTTGTGAAGACA 1112

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RESULT 1673
ADO42612/c
       26-FEB-2002
26-FEB-2002
26-FEB-2002
27-FEB-2002
28-FEB-2002
28-FEB-2002
28-FEB-2002
28-FEB-2002
28-FEB-2002
28-FEB-2002
28-FEB-2002
28-FEB-2002
13-MAR-2002
13-MAR-2002
15-MAR-2002
15-MAR-2002
15-MAR-2002
15-MAR-2002
15-MAR-2002
28-FEB-2002
28-FAY-2002
28-MAY-2002
28-MAY-2002
28-MAY-2002
28-MAY-2002
28-MAY-2002
28-MAY-2002
28-MAY-2002
28-MAY-2002
28-MAY-2002
                                                                                                                                                                                                                                                 14-DEC-2001;
17-DEC-2001;
17-DEC-2001;
18-DEC-2001;
20-DEC-2001;
31-DEC-2001;
01-FEB-2002;
01-FEB-2002;
                                                                                                                                                                                                                                                                                                                                                                                               11-DEC-2001;
11-DEC-2001;
11-DEC-2001;
11-DEC-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; NOVX; PCR; ss; cancer; atherosclerosis; diabetes; Alzheimer's disease; Parkinson's disease; graft-versus-host disease; scleroderma; hypertension; haemophilia; idiopathic thrombocytopenic purpura; immunodeficiency; AIDS; dyslipidemia; obesity; Crohn's disease; bronchial asthma; anorexia; cancer-associated cachexia; multiple sclerosis; fertility; primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AD042612
                                                                                                                                                                                                                                                                                                                                                                                                                                                             07-DEC-2001;
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07-DEC-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 02-DEC-2002; 2002US-00307817
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US2004058338-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
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                                                                                                                                                                                                                                                                                                                                   14-DEC
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                                                                                                                                                                                                                                                                                                                                                                                       -2001;
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2002US-035959P
2002US-0359626P
2002US-0359914P
2002US-0359956P
2002US-0360924P
2002US-0360924P
2002US-0361028P
2002US-0361264P
2002US-0361264P
2002US-0361264P
2002US-0361264P
2002US-0364181P
2002US-0364181P
2002US-0364238P
2002US-0364978P
2002US-036981P
2002US-036981P
2002US-0383534P
2002US-03833744P
2002US-0383829P
2002US-0383829P
2002US-0383829P
2002US-0383829P
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2001US-0341144P.
2001US-034147P.
2001US-0341540P.
2001US-0341768P.
2001US-0341768P.
2001US-0341768P.
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2002US-0353286P
2002US-0353288P
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2001US-0340440P.
2001US-0340565P.
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2001US-0339516P.
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RESULT 1672
ADN62266/C
ID ADN6226
XX ADN6226
XX ADN6226
XX Human N
XX Human N
XX Human;
KW Cancer-
KW Alzhein
KW haematc
KW real tj
XX Teal tj
XX US2004(
XX PPD 04-MAR-
PR 08-MAR-
PR 08-MAR-
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to a method of diagnosing non-small cell lung cancer (NSCLC) or a predisposition to developing NSCLC in a subject by determining the expression level of a NSCLC-associated gene in a biological sample derived from the subject, where an increase or decrease of the level compared to a normal control level of the gene indicates that the subject suffers from or is at risk of developing NSCLC. The method is useful in diagnosing NSCLC or a predisposition to developing NSCLC in a subject. The compound, polynucleotide and the encoded polypeptide and composition are useful in treating or preventing NSCLC. This sequence corresponds to a primer for semi-quantitative PCR amplification of genes that are differentially expressed in NSCLC cells.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            30-SEP-2002;
28-FEB-2003;
28-APR-2003;
                                                                                                                                                      Human; ss; PCR; NOVX; diabetes; obesity; infectious disease; and cancer-associated cachexia; cancer; neurodegenerative disorder; Alzheimer's disease; Parkinson's disease; immune disorder; haematopoietic disorder; dyslipidaemia; chronic disease; primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Diagnosing, preventing comprises determining a sample.
  08-MAR-2001;
08-MAR-2001;
                                       07-MAR-2002; 2002US-00092900
                                                                04-MAR-2004
                                                                                                                                                                                                                                               01-JUL-2004
                                                                                                                                                                                                                                                                                                 ADN62266 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2004-330206/30.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WO2004031413-A2
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                                                                                                                                                                                                                                                                                                                                                                                       2370
                                                                                                                  sapiens
                                                                                                                                          time quantitative PCR.
                                                                                                                                                                                                                    NOV47a RTQ-PCR forward primer.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             preventing
                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
  2001US-0274191P.
2001US-0274194P.
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2003US-0451374P.
2003US-0466100P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2003WO-JP012072
                                                                                                                                                                                                                                             (first entry)
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                                                                                                                                                                                                                                                                                                 DNA;
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C;
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an ex
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                                                                                                                                                                                                                                                                                                 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                nd treating expression
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                                                                                                                                                                                                                                                                                                 BP.
                                                                                                                                                                                                                                                                                                                                                                                                             Score 14.8; DI
Pred. No. 1.1e-
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                               0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               non-small cell lung cancer (NSCLC) level of an NSCLC-associated gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                               U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                          1.1e+03
                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                     Length
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                                                                                                                                                                                                                                                                                                                                                                                                                                        22;
                                                                                                                                                       primer; RTQ-PCR;
                                                                                                                                                                                                                                                                                                                                                                                                             0
                                                                                                                                                                                           anorexia;
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  08:WAR-2001
09-WAR-2001
112-WAR-2001
113-WAR-2001
113-WAR-2001
114-WAR-2001
115-WAR-2001
119-WAR-2001
120-WAR-2001
20-WAR-2001
20-WAR-2001
20-WAR-2001
21-WAR-2001
22-WAR-2001
23-WAR-2001
23-WAR-2001
23-WAR-2001
24-WAR-2001
25-WAR-2001
26-WAR-2001
27-WAR-2001
27-WAR-2001
28-WAR-2001
29-WAR-2001
21-WAR-2001
                                      (PADI/)
(SPYT/)
(SHEN/)
(TAUP/)
(PENA/)
(LILL/)
(ZERH/)
(GUSE/)
(JIWW/)
 (GORM/)
(MILL/)
(KEKU/)
PADIGARU M.
SPYTEK K A.
SHENOY S G.
TAUPIER R J
PENA C E A.
LI L.
ZERHUSEN B I
GUSEV V Y.
GORMAN L.
GORMAN L.
KEKUDA R.
                                                                                                                                                                 2001US-0279936P.
2001US-0279934P.
2001US-0279934P.
2001US-0280822P.
2001US-0280822P.
2001US-0280822P.
2001US-028347P.
2001US-0288342P.
2001US-0288342P.
2001US-0288342P.
2001US-0291199P.
2001US-0291240P.
2001US-0291240P.
2001US-0294889P.
2001US-0294889P.
2001US-029489P.
2001US-029489P.
2001US-039310P.
2001US-0318462P.
2001US-031870P.
2001US-031870P.
2001US-031870P.
2001US-033231P70P.
2001US-0333184P.
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2001US-0277338P.
2001US-0277791P.
2001US-0277833P.
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ABV74195;

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                                                                                                                                                                                                                                                                                                      RESULT 1670
ADH70416/c
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Best Local Similarity
Matches 16; Conserv
human; T-cell associated disease; Vbeta; autoimmune disease; degenerative nervous system disease; graft versus host disease; hypersensitivity disease; infectious disease; neoplastic disease; hypersensitivity disease; atrophic gastriftis; addison's disease; atrophic gastriftis; Addison's disease; atrophic gastriftis; higherstive nervous system disease; multiple sclerosis; higherstrative nervous system disease; type I hypersensitivity disease; type I hypersensitivity; Goodpasture's syndrome; allergy; type II hypersensitivity; Goodpasture's syndrome; type IV hypersensitivity; leprosy; infectious disease; viral infection; Candida; parasitic infection; schistosome; filaria; bacterial infection; Mycobacterium; neoplastic disease; lymphoproliferative disease; leukaemia; lymphoma; cancer; brain cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present sequence is that of a PCR primer for human cDNA (see ABV74192) encoding 19.5-like polypeptide (see ABP55070). It was used, with the primer given in ABV74196, to examine the expression profile of 19.5-like mRNA in human tissues. Expression was detected in gastrointestinal tissues including the colon, small intestine and stomach, with lower signals in the trachea, salivary gland and parotid. The invention provides 19.5 and 19.5-like nucleic acids, polypeptides a antibodies useful for the diagnosis, amelioration and/or treatment of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New isolated nucleic acid molecule encoding a 19.5 or 19.5-like polypeptide, useful for diagnosing, treating or ameliorating the of psoriasis, and in genetically or physically mapping the human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            19.5-like polypeptide; psoriasis; gene therapy; antipsoriatic;
PCR; primer; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Charmley PR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens
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                                                                                                                                                                                             Human Vbeta gene
                                                                                                                                                                                                                              25-MAR-2004
                                                                                                                                                                                                                                                                                           ADH70416 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 1; Page 40;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29-MAR-2001; 2001US-0280514P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 28-MAR-2002; 2002WO-US010159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   10-OCT-2002
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                                                                                                                                                                                                                                                                                                                                                                                         2898 CTGCTAGACCAGCACATC 2915
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2003-040621/03
                                                                                                                                                                                                                                                                                                                                                                        5 CCGCTGGACCAGCACATC
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                                                                                                                                                                                           repeat sequence #206.
                                                                                                                                                                                                                                                                                           DNA;
                                                                                                                                                                                                                  : entry)~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         64pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                  0.3%;
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                                                                                                                                                                                                                                                                                            ВP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 14.8;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                    .8; DB 1;
1.1e+03;
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RESULT 1671 ADN35386

ADN35386 standard;

DNA;

22

SXAXEXBXBXXXX

Human NSCLC

gene semi-quantitative PCR

primer

forward

primer

#33

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01-JUL-2004

(first entry)

ADN35386;

Homo sapiens

ss; primer; cytostatic; gene therapy; vaccine; non-small cell lung cancer; NSCLC; diagnosis;

diagnosis;

cancer; URLC1

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22

AAAGAGAGAAAGAGAAGA

. G

1594 AAACAGAGAAGGAGAAGA 1611

0;

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X R X B X R X G X R X
                                                                                                                 CC associated diseases which comprises a panel of nucleic acid primers
CC specifically priming and allowing amplification of each Vbeta gene,
CC vbetaRNA or cDNA. The kit is useful for disgnosing organ transplant
CC rejection and diagnosing and treating T-call associated diseases.
CC including autoimmune diseases, degenerative nervous system diseases,
CC graft versus host disease, hypersensitivity diseases, infectious diseases,
CC and neoplastic diseases. Autoimmune diseases include Addison's disease,
CC atrophic gastritis. Degenerative nervous system diseases include multiple
CC allorgies and Alzheimer's disease. Hypersensitivity diseases include Type
CC I hypersensitivities such as contact with allergens that lead to
CC allorgies, Type II hypersensitivities such as those present in
CC allorgies, Type II hypersensitivities such as those caused by
CC manifested in leprosy. Infectious diseases include viral infections
CC caused by viruses such as HIV, fungal infections such as those caused by
CC schistosomes, filaria and bacterial infections such as those caused by
CC schistosomes, filaria and bacterial infections such as those caused by
CC schistosomes, filaria and bacterial infections such as those caused by
CC schistosomes, filaria and bacterial infections such as those caused by
CC schistosomes, liminative diseases include lymphoproliferative diseases
CC such as leukaemias, lymphomas and cancers such as cancer of the brain,
CC breast. The present sequence represents a Vbeta gene repeat sequence.
Matches
                   Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure; SEQ ID NO 610; 164pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Kit for diagnozing and treating T-cell associated diseases e.g. autoimmune, degenerative nervous system and infectious disease, compr
nucleic acid primers specifically priming and allowing amplification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hood LE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
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                                                                                   Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to a kit for diagnosing and treating T-cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     05-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (HOOD/) HOOD L E. (ROWE/) ROWEN L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        19-SEP-1994;
19-SEP-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Rowen L;
  Conservative
                                                                              BP; 0 A; 7 C; 0 G; 15 T; 0 U; 0 Other;
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95US-00531241
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                                                  The invention relates to a novel method of mutation analysis of a target nucleic acid which comprises incubating a sample having the target nucleic acid which comprises incubating a sample having the target nucleic acid which comprises in the presence of at least one first and second nucleic acid, where incubation produces amplified products, generating duplexes in the amplified products and detecting the presence or absence of a heteroduplex from the duplexes, where its presence indicates a potential mutation in the target nucleic acid and its absence indicates the absence of mutation in the target nucleic acid. The method and compositions of the invention may be useful for analysing mutation and diagnosing patients affected with PKD (polycystic kidney disease). The current sequence is that of a PCR primer of the invention which was used to amplify human polycystic kidney disease PKD-1 DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         is useful for studying comparative human genomics of the genes related to acclimitisation to low oxygen at high altitudes and deep oceanic explorations. Rod gene probe is useful for studying comparative human genomics of the gene related to acclimitisation to low light like night blindness. The method efficiently identifies mycrophid larva and facilitates the assessment of water bodies, estimation of genetic resources and genetic variability between myctophid population. The present sequence is a species specific PCR primer for a mycrophid fish
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Analyzing mutations of a target from generated duplexes, useful polycystic kidney disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 3;
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Palatucci CM;
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                                                                                                                                                                                  inhibit an angiogenic response, involving contacting an inactive pro form or convertase-activated form of an integrin alpha subunit, metalloprotease MTI-MWP and a candidate agent, under conditions which promote increased activation of the integrin subunit and correlating inhibition of increased activation with ability of the agent to inhibit angiogenesis. The method is used to screen for agents which inhibit an angiogenic response, and the agents are used in the treatment of associated diseases including cancer, macular degeneration, arthritis and retinopathies. The present sequence is a PCR primer used in the exemplification of the invention to identify angiogenesis inhibitors
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cancer, macular degeneration and agents which inhibit activation of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI;
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                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                          The present invention relates to a method of screening for agents which inhibit an angiogenic response, involving contacting an inactive pro fo
                                                                                                                                                                                                                                                                                                                                                                                                                     Example; Page 16; 48pp; English.
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                                                                                                                                                                                                                   CC the internally transcribed spacer region 2), PSL ROL (from the mitochondrial D-loop region), and ROD PSL SLMB (from the Rhodopsin gene). CC mitochondrial D-loop region), and ROD PSL SLMB (from the Rhodopsin gene). CC The gene regions for probe preparation are mitochondrial gene chosen from CC cytochrome b (Cytb), and mitochondrial control region (D-loop), 128 RNA cand 168 RNA genes, or nuclear gene chosen from rhodopsin (Rod) and CC internal transcribed spacer (ITS-2) gene. The method is useful for CC developing nucleotide probes for myctophid fishes such as Stenobrachius leucopsarus, Protomyctophum crockeri, Tarletonbaenia crenularis, CL Lampanyctus regalis, or Diaphus theta. The DNA probes are useful for CC chromosomal mapping of the myctophid species. The lantern fish primer CC sets and specific probes are useful in kit form. The species specific CC primers are useful to amplify a selected gene region to produce DNA CC primers are useful to amplify a selected gene region to produce DNA CC probe, which are directed as genetic markers. Cyt byrobe of myctophids CC is useful for studying comparative human genomics of the genes related to acclimitisation to low oxygen at high altitudes and deep oceanic CC explorations. Rod gene probe is useful for studying comparative human genomics of the gene related to acclimitisation to low light like night C facilities of the seasoner for water hodies estimation of constitution of most in the seasoner for water hodies.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention relates to developing nucleotide probes for myctophid fishes by extracting fish NNA, amplifying NNA by selected primers, reamplifying DNA, purifying after cycle sequencing of eluted DNA, confirming sequence of target DNA, ligating DNA in vector, introducing vector into host, checking purity and specificity of cloned DNA probe, amplifying gene insert from probe, and designing species specific primers from the probe. Also included is the nucleotide base sequences of the amplified probes PSL CTYL (from the cytochrome B gene), PSL ITS2F (form the internally transcribed spacer region 2), PSL PSCL (from the cytochrome B gene).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Developing nucleotide probes for myctophid fishes by extracting fish DNA, amplifying DNA, preparing chimeric vector, introducing into host, confirming cloned probe DNA, and designing species specific primers from
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                                                                                                               facilitates the assessment of water bodies, estimation of genetic resources and genetic variability between myctophid population. The present sequence is a species specific PCR primer for a myctophid
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BERNARDI G.
GOSWAMI S C.
JOHNSON R K.
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Sequence 22 BP; 3

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The invention relates to developing nucleotide probes for myctophid CC fishes by extracting fish DNA, amplifying DNA by selected primers, CC reamplifying DNA, purifying after cycle sequencing of eluted DNA, CC confirming sequence of target DNA, ligating DNA in vector, introducing CC vector into host, checking purity and specificity of cloned DNA probe, CC amplifying gene insert from probe, and designing species specific primers CC from the probe. Also included is the nucleotide base sequences of the CC mitochondrial D-loop region), and ROD PSL SIMB (from the Rhodopsin gene). The internally transcribed spacer region 2), PSL PROL (from the Rhodopsin gene). The gene regions for probe preparation are mitochondrial gene chosen from CC cytochondrial D-loop region), and ROD PSL SIMB (from the Rhodopsin gene). The gene regions for probe preparation are mitochondrial gene chosen from CC cytochrome b (Cytb), and mitochondrial control region (D-loop), 12S RNA CC and 16S RNA genes, or nuclear gene chosen from rhodopsin (Rod) and CC internal transcribed spacer (ITS-2) gene. The method is useful for CC developing nucleotide probes for myctophid fishes such as Stenobrachius CC lampanyctus regalis, or Diaphus theta. The DNA probes are useful for CC chromosomal mapping of the myctophid species. The lantern fish primer CC sets and specific probes are useful in kit form. The species specific CC primers are useful to amplify a selected gene region to produce DNA probe of myctophids species. The produce DNA probe of myctophids of the myctophid species. The species specific Primers are useful to amplify a selected gene region to produce DNA probes of myctophids.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Developing nucleotide probes for myctophid amplifying DNA, preparing chimeric vector, confirming cloned probe DNA, and designing
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                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 100; Page 31; 33pp; English.
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BERNARDI G.
GOSWAMI S C.
JOHNSON R K.
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Pred. No. 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        fishes by extracting fish DNA, introducing into host, species specific primers from
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ADC40502
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                                    Query Match
Best Local S
Matches 16
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Matches 16; Conserv
                                                                                                         to identify those that are promoted or inhibited in a given cell or tissue. The genes are preferably gene families such as the G protein coupled receptor family, tyrosine oxidase receptor family, or ion cha gene family. The methods may be used in treatment of cancers, includi prostate, ovarian, stomach, bladder, breast, and cancer of the intestines. EDG-1 and EDG-2 receptor agonists and antagonists may be in the treatment and prevention of atherosclerosis, myocardial infarction, infarct or ischaemic disease of the brain. This polynucleotide sequence represents a PCR primer used in the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               gene expression
                                                                                     Sequence
                                                                                                                                                                                                                                    The invention relates to a novel method for gene expression analysis by collective quantitative analysis of the expression of a number of genes
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21-FEB-2002; 2002JP-00045101.
15-MAY-2002; 2002JP-00140111.
18-NOV-2002; 2002JP-00333769.
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                                                                                                                                                                                                                                                                       Example 7; SEQ ID NO 63; 261pp; Japanese.
                                                                                                                                                                                                                                                                                                  Method
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1313 GACAAGCCTGTTGTCATC 1330
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, Kawamata Y,
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                                      Conservative
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C;
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ogi K;
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                                                 Score 14.8; DB 1;
Pred. No. 1.1e+03;
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                                      Mismatches
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                                                                                                                                                        This invention describes a novel method of preparing a library of protein CC eproducing eukaryotic cells comprising (a) introducing specific cells comprising (a) introducing specific cells content on one of the chromosomal gene loci, (b) CC Expanding at least one of the modified cells, (c) Transfecting many cells expanded cells and (d) Integrating the DNA sequences into the gene loci on the basis of the recombination signals and the appropriate cells express different proteins, each from an cell content of the cell surface. The method is particularly used to produce libraries of humanized cell monoclonal antibodies, for selection of those with affinity for particular antigens and useful for diagnostic or therapeutic use. CC ibraries of Tigel receptors may also be prepared. The method produces cell receptors may also be prepared. The method produces cellscrion from a large number of proteins, allows relatively simple cellscration of the expressed gene (e.g. fusion to other protein-coding sequences), is suitable for large scale protein production and allows sequences not require incorporation of a resistance marker. This cell receptors may content production and allows requence represents a PCR primer used to amplify the genes of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 1664
ADD13899
                                                           Matches
                                                                                       Query Match
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                                                                                                                    Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Preparing library of protein-producing eukaryotic cells, useful for producing humanized high-affinity antibodies, comprises introducing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-OCT-2001; 2001EP-00123596
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              specific
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-OCT-2001; 2001EP-00123596
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 library; transfection; humanized mono T cell receptor; primer; ss; PCR; vH.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human vH PCR primer vH3-15.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADD13899;
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                                                                          Local
                 701 CACTGTTCAGGCATCCGA 718
                                                           16;
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                                                                         Similarity
CTCTGTTCAGGCATCCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              recombination signals
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             of DNA sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Fig 14C;
                                                                                                                    ВP;
                                                           Conservative
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                                                                                                                    W
                                                                                                                    A; 9 C; 4 G; 6 T; 0
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                                                                         88.9%;
                                                                                       0.3%;
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22
                                                         0;
                                                         Pred. No. 1.1
); Mismatches
                                                                                       Score 14.8;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            into chromosomal gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                monoclonal antibody; antigen;
                                                                                                                    U; 0 Other;
                                                                         .1e+03
                                                                                        DB 1;
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                                                                                       Length
                                                           Indels
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RESULT 1665

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RESULT 1662
ADC10510/c
ID ADC1051
XX
AC ADC1051
XC ADC1051
XX
DT 18-DEC-
XX
DE Human N
XX
CHARLES PTI
KW SS; PTI
KW INSURORY
KW INSURORY
KW CHYCOMOE
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OS Homo Se
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Best Local S
Matches 16
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20-APR-2001; 2001US-0285424P.
25-APR-2001; 2001US-0286482P.
29-JUN-2001; 2001US-00895834.
22-OCT-2001; 2001US-0341050P.
22-OCT-2001; 2001US-0341105P.
                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to zcyto20, zcyto21, zcyto22, zcyto24 and zcyto25 polypeptides and polymucleotides. Sequences of the invention are useful for treating hairy cell leukaemia, renal cell or basal cell carcinoma, malignant melanoma, AIDS-related Kaposi's sarcoma, multiple myeloma, non Hodgkin's lymphoma, hepatitis B, C or D, infections (e.g. bacterial, fungal or protozoal) or myocarditis. The invention is useful for growth regulation in the liver, blood vessel formation and other developmental processes. The invention is also useful in immunotherapy and gene therapy. The present sequence is a PCR primer used to amplify human zcyto20 and zcyto22 DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New ZCYTO20, ZCYTO21, ZCYTO22, ZCYTO24 and ZCYTO25 polypeptides and polynucleotides useful for treating leukemia, carcinoma, malignant melanoma, AIDS-related Kaposi's sarcoma, myeloma, non-Hodgkin's lymphoma, hepatitis and infections.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           hepatitis; infection growth regulation; deprimer; zcyto22; ss.
                                                        ss; primer; cytostatic; antidiabetic; anorectic; cerebroprotective;
neuroprotective; antiinflammatory; gene therapy; antisense therapy;
thyromimetic; NOVX; pathology; cancer; diabetes; obesity;
endocrine disorder; CNS disorder; inflammatory disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           melanoma; Kaposi's sarcoma; multiple myeloma; non-Hodgkin's lymphoma; hepatitis; infection; myocarditis; blood vessel formation; gene therapy; growth regulation; developmental process; immunotherapy; zcyto20; PCR;
                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
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                                            chromosome mapping;
                                                                                                                                                                                                                         ADC10510 standard;
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                                                                                                                                   NOVX
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                                                                                                                                                                                                                                                                                                                                                                                                                   22 BP; 2
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                                                                                                                                polypeptide gene forward primer SEQ ID
                                                                                                                                                                                                                                                                                                                                                          Conservative
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Pred. No. 1.1e
O; Mismatches
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                                              predictive
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                                            ry disorder; medicine.
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12 JUN 2001
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28 JUN 2001
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29 JUN 2001
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21 FEB 2002
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2001US-02975474

2001US-0295577

2001US-02985285

2001US-02985285

2001US-02985285

2001US-0299330

2001US-0299330

2001US-0300177

2001US-0301530

2001US-0301530

2001US-0301530

2001US-0301530

2001US-0301530

2001US-0301530

2001US-0301530

2001US-0310890

2001US-0322976

2001US-03322976

2002US-03397878

2002US-03590348

2002US-03794448
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Spytek KA, Stone DJ, Vernet CAM, Zhong H, Zhong M, Alsobrook JP; Burgess Lepley DM; Rieger DK; Kekuda R;

2003-210149/20.

New isolated NOVX polypeptides and nucleic acid molecules useful for treating, preventing and diagnosing pathological conditions with NOVX-associated disorders, such as cancer, obesity, diabetes and inflammatory CNS diseases.

SEQ ID NO 529; 772pp; English.

The invention relates to novel isolated polypeptides, mature form of the polypeptide, a sequence that is 95% identical to the polypeptide or the polypeptide comprising one or more conservative substitutions. The NOVX polypeptide is useful for treating or preventing a pathology associated with the polypeptide e.g. disorders associated with aberrant expression or activity of the polypeptide, such as cancer, diabetes, obesity, and endocrine, CNS and inflammatory disorders. They can also be used in various detection and screening assays, chromosome mapping, tissue typing and predictive medicine. This sequence corresponds to a primer used to amplify and isolate the coding sequence for one of the polypeptides of

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RESULT 1660
ACC6246
XX
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Best Local
     19-SEP-2001
20-SEP-2001
20-SEP-2001
25-SEP-2001
25-SEP-2001
26-SEP-2001
14-DEC-2001
26-FEB-2002
03-MAY-2002
03-MAY-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; NOVX; antiatherosclerotic; hypotensive; cardiant; dermatological; ancrectic; immunosuppressive; cytostatic; antidiabetic; antiinflarility; haemostatic; antiinflammatory; antiasthmatic; anti-HIV; immunomodulator; neuroprotective; nootropic; antiparkinsonian; metabolic; antilipaemic; gene therapy; cardiomyopathy; atherosclerosis; hypertension; scleroderma; congenital heart defect; aortic stenosis; valve disease; transplantation; tuberous sclerosis; obesity; congenital adrenal hyperplasia; diabetes; prostate cancer; metabolic disorder; neoplasm; lymphoma; uterus cancer; fertility; haemophilia; hypercoagulation; graft versus host disease; idiopathic thrombocytopenic purpura; AIDS; bronchial asthma; anorexia; Crohn's disease; multiple sclerosis; infectious disease; cancer; cancer-associated cachexia; Alzheimer's disease; Parkinson's disease; immune disorder; haemacopoietic disorder; dyslipidaemia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  identification of early and adult life history stages of myctophids i.e., Lantern fishes. The specifies specific primers are employed to amplify a selected gene region to produce DNA probe directed for use as genetic markers. The probes are useful for identifying myctophid larvae and hence facilitate the assessment of genetic resources and genetic variability between myctophid population. use of the primer polymucleotides for amplifying a myctophid gene or its fragment. The present sequence represents a specifically claimed Protomyctophum crockeri PCR primer, which is used in the method from the present invention
                                                                                                                                                                                                                                                                                                                17-SEP-2001;
17-SEP-2001;
                                                                                                                                                                                                                                                                                                                                                                        17-SEP-2001;
17-SEP-2001;
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07-SEP-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                                                10-SEP-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human NOV42 forward PCR primer SEQ
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                       2001US-031812OP.
2001US-0318130P.
2001US-031843OP.
2001US-0322781P.
2001US-0322816P.
2001US-0322817P.
2001US-0323631P.
2001US-0323631P.
2001US-0323631P.
2001US-0323636P.
2001US-0324969P.
2001US-0324969P.
2001US-0324990P.
2001US-0324990P.
2001US-0324990P.
2002US-0361663P.
2002US-0377908P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PCR primer; 88
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Pred. No. 1.
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CC antidabetic, antiinferrility, haemostatic, antiinflammatory, anti-NIV.
CC antidabetic, metabolic, immunomodulator, neuroprotective, nootropic,
CC antidasthmatic, metabolic, immunomodulator, neuroprotective, nootropic,
CC antiparkinsonian and antilipaemic activities, and can be used in gene
CC therapy. NOVX proteins are useful for treating or preventing a pathology
CC associated with the human disease. NOVX nucleic acids, proteins and
CC antibodies can be used in the treatment and diagnosis of cardiomyopathy,
CC atherosclerosis, hypertension, congenital heart defects, aortic stenosis,
CC valve disease, tuberous sclerosis, scleroderma, obesity, transplantation,
CC congenital adrenal hyperplasia, prostate cancer, fertility, haemophilia,
CC disorders, neoplasm, lymphoma, uterus cancer, fertility, haemophilia,
CC disease, AIDS, bronchial asthma, Crohm's disease, multiple sclerosis,
CC disease, AIDS, bronchial asthma, Crohm's disease, multiple sclerosis,
CC disease, AIDS, bronchial asthma, Cancer associated cachexia, cancer,
CC Alzheimer's disease, parkinson's disease, immune disorders
CC haematopoietic disorders, dyslipidaemias, and metabolic syndrome X.
CC ACC346 to ACC6245 represent PCR primers and probes for human NOVX
CC sequences, which are used in examples from the present invention with
CC the human NOV35b protein in the exemplification of the present invention
CC the human NOV35b protein in the exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local &
                                                                                                                                                                                                                                                                                                                                                                                                                                          Bequences, which are --
BER54277 represents a human
ABR54277 nepresents a human
The human NOV35b protein in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Novel human proteins and nucleic acid encoding the proteins, useful diagnosis, treatment and prevention of disorders involving the human protein or nucleic acid e.g. cardiac and neurological disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Agee MI, Alsobrook JP, Anderson DW, Berghs C, Boldog FL; Burgess CE, Casman S, Catterton E, Chant JS, Chaudhuri A; Crabtree J, Dipippo VA, Edinger SR, Eisen AJ, Ellerman K; Gangolli EA, Gerlach VI, Giot L, Gorman L, Guo X, Gusev VY, Kekuda R, Khramtsov NV, Leach MD, Lepley DM, Li L, Liu X; Malyankar UM, Miller CE, Ooi CE, Ort T, Padigaru M, Patturaj Pena CEA, Rieger DK, Rothenberg ME, Shenoy SG, Shimkets RA; Spaderna SK, Spytek KA, Taupier RJ, Twomlow N, Vernet CAM, V
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               29-WAY-2002; 2002US-0383863P
02-UTU-2002; 2002US-0393332P
17-UTU-2002; 2002US-0396412P
13-AUG-2002; 2002US-0403517P,
06-SEP-2002; 2002US-00236417
                                                                                                                                                           AAD50511 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention describes isolated human NOVX proteins, where X is 1 to 42. ACC62345 to ACC62345 encode the human NOVX proteins given in ABR54176. NOVX sequences have anniatherosclerotic, cardiant, heartfall of the ABR54276. NOVX sequences have anniatherosclerotic, cardiant.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               hypotensive, dermatological
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                                                                                                                                                                                                                                                                                                                                                           Score 14.8; DB 1;
Pred. No. 1.1e+03;
                                                                                                                                                                                                                                                                                                                                      Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                     T; 0
                                                                                                                                                                                                                                                                                                                                                                                                                     U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             immunosuppressive,
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Human zcyto20 and zcyo22 DNA amplifying PCR primer, ZC39741.

24-MAR-2003

(first entry)

Human; leukaemia; carcinoma; acquired immune deficiency syndrome;

AIDS;

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ABS64805/c
ID ABS648
XX ABS648
XX ABS648
XX TNF1
XX WPI; 2
XX WPI; 2
XX WPI; 2
XX WPI; 2
XX TNF2
XX TN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local S
Matches 16
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                                                                                                                                                                                                                                                                                                                 New polypeptide capable of binding nucleic acids for treating or preventing a disease caused by a virus or a disease associated with immune response, particularly autoimmune diseases e.g. inflammation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              22-JAN-2001; 2001GB-00001576.
07-FEB-2001; 2001GB-00003032.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Receptor; virus
TNFR1 receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22-JAN-2002; 2002WO-GB000246
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                                                                                                                                                                                                                                                                                                                                                                                                                                           2002-590720/63
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SANGAMO BIOSCIENCES INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        virus infection; immune response; autoimmune disease;
ptor; inflammation; autoimmune encephalomyelitis;
arthritis; myocarditis; ds.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
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Pred. No. 1
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Query Match
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Matches 16
                                                                                                                               modulate transcription of a receptor nucleotide sequence. The nucleic acid polypeptide capable of binding to a nucleic acid sequence compris a receptor nucleotide sequence, where the receptor is capable of functioning as a receptor for infection by the virus or is involved in immune response, or a nucleic acid encoding such a polypeptide, can be used in the preparation of a medicament for use in the treatment or prevention of a disease caused by a virus or of a disease associated w an immune response. The polypeptides may further be used to treat or prevent various diseases or syndromes associated with or caused by malfunction of the receptor as the TNFR1 receptor, such as autoimmune diseases including inflammation, autoimmune encephalomyelitis, rheumat arthritis or myocarditis. The present nucleic acid sequence represents
                                                                                                   Sequence
818
                                                 Similarity
GCTGGAGGAAGAGGACAC
                                                                                                   22 BP; 1 A;
                                               0.3%;
                                                                                                     10
                                                                                                     C; 4
835
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                                 Score 14.8; D
Pred. No. 1.1e
0; Mismatches
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                            1.1e+03;
2;
                                                                   DB
                                                                                                     0 Other;
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                                                                 Length 22;
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                                                                                                                                                       represents
                                                                                                                                                                       rheumatoid
                                                                                                                                                                                                                                                                                                                            comprising
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18
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밁 S

05-FEB-2003 Protomyctophum ABQ83977; ABQ83977 standard; (first entry) crockeri 16S DNA; 22 ВP RNA gene PCR primer 16S-H.

Cytochrome b; cyt b; internal transcribed detection; PCR D-loop; mitochondrial; Rod; ITS-2; spacer region; nuclear; myctophid; myctophid; rhodopsin; fish; prob probe;

Protomyctophum

GB2374597-A

23-OCT-2002

30-MAR-2001; 2001GB-00008104

30-MAR-2001; 2001GB-00008104.

(COUL) COUNCIL SCI & IND RES

Goswami U, Bernardi ູດ Goswami SC, Johnson

Developing probes for myctophid fishes, useful for genetic identification of myctophids, by generating probes for cytochrome b, internal transcribed spacer region, mitochondrial D-loop, and rhodopsin genes of

Page 60pp; English.

RESULT 1659
ABQ83977/c
ID ABQ83977/c
XX ABQ8397
XX O5-FEBXX Cytcohx
KW interna
KW identif
XX GB23745
XX GB23745
XX GB23745
XX GOUL)
XX GB23745
XX GOWARPR 30-MARXX GCUL)
XX GB23745
XX COUL)
XX GB23745
XX GOWANPR 30-MARXX GOWANXX GOW The present invention describes a method (M1) for developing probes (P) for myctophid fish by amplifying selected gene regions in DNA extracted from muscle of fish, eluting and reamplifying amplified DNA, purifying and ligating the DNA into vector which is transformed into host cells, purifying recombinant plasmid DNA having cloned gene (P) from host cells, amplifying gene insert from probe, comparing sequence of prepared (P) against known sequences of similar genes, and designing gene insert from sequences of set a section of the section sequences. The method is useful for developing nucleotide probes for myctophid fishes such as Stenobrachius leucopsarus, Diaphus theta. Protomyctophum crockeri, Tarletonbeania crenularis or Lampanyctus

function as a receptor for virus interceptor. The molecules of the invention are useful in the treatment or response. The molecules of the invention are useful in the treatment or prevention of a disease caused by a virus or of a disease associated with an immune response, particularly an autoimmune disease. The zinc finger polypeptide or a nucleic acid encoding such a polypeptide can be used to

ne present invention relates to a new polypeptide capable of l nucleic acid comprising a receptor nucleotide sequence which unction as a receptor for virus infection or is involved in a

binding can

to

Example 3;

Page

61; 105pp; English

arthritis.

This invention relates to

se to the DNA and protein sequences encoding a soluble CD86 ligand, soluble and membrane-bound CD28

Example

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17; 73pp;

English

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RESULT 1656
AAD42805/C
ID AAD4280
XX
AAD42800
XX
AC AAD4280
DT 15-NOV
XX
DE PCR pr
XX
Regene
XX
Regene
XX
Unider
XX
US200
XX
PR US200
XX
PF 16-FE
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PR 07-J)
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PR US200
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PR 01-N(
PR 01-N
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CC receptor and soluble or membrane bound CTLA-4 receptor. The invention CC also relates to a vaccine comprising an effective amount of these corrector proteins. A vaccine is useful for inducing immunity or enhancing CC an immune response in a cat. The protein sequences of the invention are useful for suppressing an immune response in a feline suffering from an catuchimune disease or the recipient of a tissue or organ transplant. A CC vector containing the DNA sequences of the invention is useful for redirecting an immune response in a feline to an immunogen such as rabies CC virus, chlamydia, toxoplasmosis gondii, flea, feline immunodeficiency CC virus, feline leukaemia (FeLV), feline infectious peritonitis virus (FIP), panleukopaenia virus, calcivirus, reovirus type 3, rocavirus, cornavirus, syncitial virus, herpes virus, sarcoma virus, borna disease CC cornavirus, syncitial virus, herpes virus, sarcoma virus, borna disease CC cornavirus, parasite. The protein sequences may be further utilised to promote growth in homologous or heterologous feline species. Enhancement CC immunity through the interaction of soluble CD80 or Soluble CD86 with CCD28 or CTLA-4 or inhibition of an immune response through the CC interaction of feline CD80 or CD86 with CTLA-4 takes advantage of the natural process of regulation rather than adding foreign substances that CC could have multiple, even detrimental effects on overall or long term CC quantitative PCR experiments to analyse expression of different cytokines and the nucleotide sequences of the invention from infected cells
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Best Local
                                  Identifying two nucleotides which are separated by an interval in destranded nucleic acid using restriction endonuclease that generates overhang, template-directed ligation to labeled adaptors and amplification.
                                                                                                                                                                                                                                                                                                                                                                            01-NOV-1996;
07-JAN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      15-NOV-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16-FEB-2001; 2001US-00788038
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   13-JUN-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   restriction
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PCR primer A used in the invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22 BP; 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   method; sequencing; strand d: endonuclease; identification;
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                                                                                                                                                                                                                                                                                                                   IOWA RES FOUND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
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99US-00226683.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 14.8;
Pred. No. 1
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ខ្មុំ × ស្ត្រី ស្ត្
                                                                                                                                   sequencing DNA. The method involves identifying two nucleotides which are separated by an interval in double stranded (ds) nucleic acid using restriction endonuclease that generates 5' overhang, template-directed ligation to labeled adaptors and amplification. The method is useful for identifying a first nucleotide n and a second nucleotide n+x in a ds nucleic acid segment which is a genomic DNA, cDNA, a product of an in vitro DNA amplification e.g., a polymerase chain reaction (PCR) product or a product of a strand displacement amplification, or a vector insert. It is also useful for sequencing an interval within a ds nucleic acid segment in several of staggered ds molecules produced from the double stranded nucleic acid segment. It is useful for removing all or a part of a primer sequence from a primer extended product and for automated sequencing of double-stranded DNA segments. The present sequence is a PCR primer used to illustrate the method of the invention
       Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 4; Page 33; 59pp; English.
BP; 5 A; 6 C; 4 G; 7 T; 0 U; 0 Other;
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Query
Best I
                                   Matches
                                           Local
                                                     Match
           1039 CAGAAGAGCATCTTAAGG 1056
22 CAGAAGATCATCTTACGG
                                   16;
                                            Similarity
                                   Conservative
                                           88.9%;
                                                   0.3%;
u
                                  0;
                                           Score 14.8; DB 1;
Pred. No. 1.1e+03;
                                   Mismatches
                                                    DB 1;
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                                                  Length
                                   Indels
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RESULT 1657
ABS64808/c
ID ABS64808 standard; DNA; 22
                                                                                                                                                                                                                                   Receptor; virus infection; immune response; autoimmune disease; TNFR1 receptor; inflammation; autoimmune encephalomyelitis; rheumatoid arthritis; myocarditis; TNFR1 six finger domain; ss.
                                                                                                              Demaison
                                                                                                                      Moore M,
                                                                                                                                                  22-JAN-2001; 2001GB-00001576.
07-FEB-2001; 2001GB-00003032.
                                                                                                                                                                         22-JAN-2002; 2002WO-GB000246
                                                                                                                                                                                         25-JUL-2002.
                                                                                                                                                                                                       WO200257308-A2
                                                                                                                                                                                                                      Unidentified
                                                                                                                                                                                                                                                                   TNFR1 Bix
                                                                                                                                                                                                                                                                                  15-NOV-2002
                                                                                                                                    (SANG-) SANGAMO BIOSCIENCES INC.
                                                                                                                                                                                                                                                                                                 ABS64808;
                                                                                                              'n
                                                                                                              Isalan M,
C, Choo Y;
                                                                                                                                                                                                                                                                  finger
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                                                                                                                      Reynolds
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                                                                                                                      Ullman
                                                                                                                     'n
                                                                                                                      Girdlestone
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The present invention relates to a new polypeptide capable of binding a nucleic acid comprising a receptor nucleotide sequence which can function as a receptor for virus infection or is involved in an immune response. The molecules of the invention are useful in the treatment of prevention of a disease caused by a virus or of a disease associated we New polypeptide capable of binding nucleic acids for treating or preventing a disease caused by a virus or a disease associated with immune response, particularly autoimmune diseases e.g. inflammation rheumatoid arthritis. Example u I Page 63; 105pp; English. an immune ő

or

*CHEROLOGIC

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08-MAR-2001;
08-MAR-2001;
08-MAR-2001;
08-MAR-2001;
09-MAR-2001;
12-MAR-2001;
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12-MAR-2001;
13-MAR-2001;
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                          Padigaru M, S
Zerhusen BD,
Patturajan M,
Fernandes ER,
Spaderna SK,
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                                                                                                                                    CURAGEN CORP.
                                                                                                                                                                    2001US-0274849P
2001US-0275535P
2001US-0275579P
2001US-0275600P
2001US-0276000P
2001US-0276994P
2001US-0277321P
2001US-0277321P
2001US-0277332P
2001US-0277332P
2001US-02778999P
2001US-0277934P
2001US-0279348P
2001US-0280902P
2001US-0293199P
2001US-0294899P
2001US-029489P
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2001US-029489P
2001US-029489P
2001US-029489P
2001US-039489P
2001US-039339P
2001US-039339P
2001US-039339P
2001US-03338462P
2001US-033389P
                      Spytek KA, Shenoy Su, Aury-11, Gusev V, Ji W, Gorman L, Mill, 4, Gangolli E, Vernet CAM, Guo X, Casman SJ, Malyankar UM, Gerl Burgess C, Leite
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y SG, Taupier RJ, Pena Corman L, Miller CB, Kekuda R;
Gorman L, Miller CB, Kekuda R;
Srnet CAM, Guo X, Tchernev V;
Ivankar UM, Gerlach V, Liu Y, Anderson
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ABK48652
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Best Local S
Matches 16
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feline
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                                            Polynucleotide encoding polypeptide of CD80 ligand, CD86 ligand, receptor or CTLA-4 receptor as vaccine for inducing immune responded in the suffering from autoimmune disease or tissue or organ trans
                                                                                                                                                                                       (COLL/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CD28;
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                                                                                                                                                                                                                                                                01-MAY-1998;
                                                                                                                                                                                                                                                                                                                                     07-MAR-2002.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ABK48652;
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                                                                                                                                                     Collisson
                                                                                                                                                                                                                                                                                                  30-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                         US2002028208-A1
                                                                                                                                                                                                                                                                                                                                                                                                            Felis
                                                                                                                                                                                                                                                                                                                                                                                                                                              cornavirus;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      vaccine;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             vaccine; feline immunodeficiency virus; FIV; immunosuppressant;
e infectious peritonitis; primer; 6s; CD80 ligand; CD86 ligand;
receptor; CTLA-4; vaccine; rabies; autoimmune disease; PCR;
transplant; toxoplasmosis gondii; flea; parasite; panleukopaenia;
e leukaemia; FeLV; calcivirus; rotavirus; reovirus type 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          18
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HASH S M.
CHOI I.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TCAGCATTTGTGAAGACA
                                                                                                                                                     EW,
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                                                                                                                                                                                                                                                                                                                                                                                                                                            herpes; borna disease.
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                                                                                                                                                     MS,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           entry)
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response

CD28 'n

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This invention describes novel human NOVX polypeptides which have cytostatic, cardiant, antiarteriosclerotic, antiasthmatic and hypotensive activity. Pharmaceutical compositions comprising the NOVX proteins or nucleic acid molecules or NOVX antibodies are useful for preventing or treating a disorder associated with aberrant NOVX expression or activity e.g. cancer, hypertension, atherosclerosis, cardiomyopathy or bronchial asthma. The products of the invention are used or gene therapy or in a vaccine. ABX13460-ABX13462 and ABX97186-ABX9753 represent PCR primers and probes used in the amplification and isolation of the NOVX polynuclectides represented in ABX97186-ABX97185 which encode the
Feline CD80 RT-PCR primer B7-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Lepley DM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OVX polypeptides and polynucleotides, useful for preventing or treating disorder associated with aberrant NOVX expression or activity e.g., ancer, hypertension, atherosclerosis, cardiomyopathy or bronchial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1103pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    G; 7 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 14.8; DI
Pred. No. 1.1e.
0; Mismatches
   #2.
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RESULT 1653
ABZ30476
ID ABZ3047
XX ABZ3047
XC ABZ3047
XX Gandida
XX Fungus;
XW Fungus;
XW Fungus;
XW Fignal
XX Fungus;
XW Fungus;
XW
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to human and mouse alpha-catenin polypeptides and their associated polynucleotides. The polypeptides and related antibodies are useful for modulating the cadherin-catenin related pathway in selected organs, such as the heart and testis. The nucleic acids and the antibodies are useful in the diagnosis and/or prediction of the likelihood of developing cadherin-catenin related diseases. The nucleic acids may also be used to predict the likelihood of developing cancer or in diagnosing cancer, and in gene therapy. The polypeptide, the nucleic acid or the antibody is useful in manufacturing a medicament for treating cadherin-catenin related diseases, such as cancer, cardiomyopathy, and male inferrility. Sequences appecifically dilated cardiomyopathy, and male inferrility. Sequences ABK41510-ABK4159 represent PCR primers used to amplify DNA encoding human and mouse alpha-catenin polypeptides, including the CTNNA3 gene
                                                               11-JUL-2002
                                                                                                                                                                                                                               Fungus; yeast; tetracyclin; promoter; GRACE strain; biosynthesis; signal transduction; DNA replication; cell division; growth; proliferation; Candida albicans; fungicide; antifungal; PCR; primer;
         26-DEC-2001; 2001WO-US049486.
                                                                                                                        WO200253728-A2
                                                                                                                                                                                                                                                                                                                                                        Candida albicans GRACE strain PCR primer SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                       30-JAN-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cadherin-catenin related disease; specifically dilated cardiomyopathy; cardiomyopathy; male infertility; CTNNA3; PCR; alpha T-catenin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABZ30476 standard; DNA; 22 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BP; 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.3%;
llarity 88.9%;
Conservative
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2000US-0218309P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4 C; 5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 14.8; DB 1;
Pred. No. 1.1e+03;
0; Mismatches
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ABX97363/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CC expressible selectable marker and modifying other allele by insertion or replacement by a cassette having an expressible selectable marker and modifying other allele by recombination, of a promoter replacement fragment with a heterologous crecombination, of a promoter replacement fragment with a heterologous crecombination, of a promoter replacement fragment with a heterologous creation of the second allele is regulated by the promoter. (M1) is useful for constructing a strain of diploid fungal contributes both alleles modified are useful for identifying a gene that contributes to the virulence and/or pathogenicity of a fungus, a gene contributes to the resistance of a diploid fungus to an antifungal agent that inhibits the growth of a diploid fungus and for identifying a therapeutic agent for treatment of a mammalian constituty of a gene product, preferably enzymatic activity, carbon compound catabolism, biosynthetic, transporter, transcriptional, constituty. The method is useful for identifying a compound which modulates the activity. The method is useful for identifying a compound having the ability to inhibit growth or proliferation of C. albicans cells and for treating infection by C. albicans. The present sequence data for this patent is not represented in the printed specification but is based on account is not represented in the printed specification but is based.
                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local :
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20-FEB-2001;
22-AUG-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Constructing strains for identifying gene products as effective targets for therapeutic intervention, by inactivating in the strain one allele of a gene and placing other allele of the gene under conditional expression.
                                                                                                                           hypotensive;
                                                                                                                                        NOVX; cytostatic; cardiant; antiarteriosclerotic; antiasthmatic; cancer;
                                                                                                                                                                      Human NOV-associated forward primer from primer-probe set Ag3366
                                                                                                                                                                                                          20-MAY-2003
                                                                                                                                                                                                                                        ABX97363;
                                                                                                                                                                                                                                                                        ABX97363
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 22
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (ELIT-) ELITRA PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               sequence information supplied to Derwent by the European Patent Office
                                                                                                                                                                                                                                                                                                                                                                                      5054 ATAGTGCAGCCTTTTCTT
                                                                                                          PCR;
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                                                                                                                                                                                                                                                                        standard;
                                                                                                                                                                                                                                                                                                                                                        ATAATGCAGCCTTTGCTT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Jiang
                                                                                                          primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BP; 4 A;
                                                                                                                         cardiomyopathy;
                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2000US-0259128P.
2001US-00792024.
2001US-0314050P.
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                                                                                                                                                                                                                                                                      DNA;
                                                                                                                                                                                                          entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                 0.3%;
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                                                                                                                         bronchial asthma; gene therapy; vaccine;
                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 14.8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Bussey H,
                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
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are modified,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   22;
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modifying
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19-SEP-2002 WO200272757-A2

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RESULT 2141
ADO47045/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to oligonucleotides anti-sense to an initiation codon, coding region, 5' or 3' intron-exon junction, intron or region with 2-10 nucleotides of the 5'-end or 3'-end of a nucleic acid target chosen from a gene encoding interleukin (II)-4 receptor, interleukin (II)-5 receptor, CCR1, CCR1, Ectaxin-1, RANTES, MCP4, CD23, ICAM, VCAM, CTyptase a, tryptase b, PDE4 A, PDE4 B, PDE4 C TYPTAS, MCP4, CD23, ICAM, VCAM, CTYPTAS, CTYPTAS, CTYPTAS, MCP4, CD23, ICAM, VCAM, CTYPTAS, Ectaxin-1, RANTES, MCP4, CD23, ICAM, VCAM, CTYPTAS, Ectaxin-1, RANTES, MCP4, CD23, ICAM, VCAM, CTYPTAS, Ectaxin-1, RANTES, MCP4, CD23, ICAM, VCAM, CTYPTASS E C Useful for preventing or treating a respiratory or lung disease. The CC useful for preventing or treating a respiratory or lung disease. The respiratory or lung disease is and/or increased levels of, adenosine and/or levels of adenosine A receptor(s), and/or asthma and/or lung allergies associated with a creoptor(s), and/or asthma and/or lung allergies associated with the constituency of the schosen from airway inflammatory disease. The respiratory or lung disease (COPD), chronic obstructive pulmonary disease (COPD), chronic obstructive pulmonary disease (COPD), allergic rhinitis, acute respiratory distress syndrome, pulmonary of the constituency of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local S
Matches 15
                                                                                    asthma; lung allergy; inflammation; inflammatory disease; airway inflammation; allergy; impeded respiration; cystic fibrosis; chronic obstructive pulmonary disease; COPD; allergic rhinitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 20
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                                                                                                                                                                                           Human; 88; interleukin-4 receptor; IL-4; interleukin-5 receptor; IL-5; CCR1; CCR3; Eotaxin-1; RANTES; MCP4; CD23; ICAM; VCAM; tryptase a; tryptase b; PDE4 A; PDE4 B; PDE4 C; PDE4 D; respiratory disease; tryptase b; phose A; PDE4 B; PDE4 B
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(SHAH/)
(LUHH/)
                                                        acute respiratory distress syndrome; pulmonary hypertension;
                                                                                                                                                                                                                                                                                                                                                                        Human oligonucleotide #2411.
                                                                                                                                                                                                                                                                                                                                                                                                                                        15-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADO47045
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) SHAHABUDDIN
) LU H.
) CONG H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
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in S, Lu H, Cong
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.3%;
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ng H;
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ADO45398 ID ADO4 XX AC ADO4

ADO45398 standard; DNA; 20

ВP

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ADO45398;

RESULT 2142

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                                                            Query Match
Best Local Similarity
Matches 15; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Novel single or multiple target oligonucleotide anti-sense to e.g. initiation codon, intron of respiratory disease-relevant gene e.g. CCR1, RANTES, MCP4, useful for prophylaxis or treating respiratory disease e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (SAND/)
(TANG/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US2004049022-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                         Sequence 20
                                                                                                                                                                                     allergic rhinitis, acute respiratory distress syndrome, pulmonary hypertension, lung inflammation, bronchitis, airway obstruction o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to oligonucleotides anti-sense codon, coding region, 5' or 3' intron-exon junction,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 5; Page 163;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2004-293804/27.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Shahabuddin S,
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LU H.
CONG H.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SANDRASAGRA A.
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                                                                                                                         BP;
                                                             Conservative
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2002WO-US013143
                                                                                                                        3 A; 4 C; 8 G; 5 T; 0 U;
                                                                         0.3%;
                                                                                                                                                                        This sequence
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                                                            Score 14.4; D
Pred. No. 1.1e
0; Mismatches
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intron-exon junction, intron or regi
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Aguilar D,
                                                                                                                                                                        represents
                                                                            1.1e+03;
                                                                                                                         0 Other;
                                                                                             DB
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                                                                                          Length
                                                                                                                                                                          oligonucleotide
                                                             Indels
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RESULT 2139
AD071719/c
ID AD07171
XX AD07171
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Best Local (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             moss; funariaceae; storage protein; homogentistate pathway; acetyltransferase; fatty acid desaturase; thioesterase; phosphorylase; chalcone isomerase; cellulase; threonine synthase; food; animal feed; pharmaceutical; fine chemical; enzyme; vitamin; amino acid; fatty acid; sugar; flavour; perfume; colour; triacylglycerol; lipid; oil; starch; tocopherol; tocotrienol; carotenoid; delta5-fatty acid desaturase; ss;
                                                               Altering several DNA sequences in moss, simultaneously, useful preparing transformants for e.g. production of pharmaceuticals, or more homologous recombination constructs.
                                                                                                                                                                                                   WPI; 2004-271062/26.
                                                                                                                                                                                                                                                                                                                                                                                               12-SEP-2002; 2002DE-01042531.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               12-SEP-2002; 2002DE-01042531.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Local Similarity 93.8%;
hes 15; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2260 GGTTTGGGGATCTTAA 2275
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                               PLANT SCI GMBH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         patens.
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Pred. No. 1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
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                                                                                                 using two
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15-JUL-2004

(first entry)

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RESULT 2140
ADO44683/c
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Best Local S
Matches 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4700 TCCAGCTTCAGTGACA 4715
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                93.8%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      7 G; 4 T; 0 U; 0 Other,
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Pred. No. 1.1e+03;
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Human; ss; interleukin-4 receptor; IL-4; interleukin-5 receptor; IL-5; CCR1; CCR3; Eotaxin-1; RANTES; MCP4; CD23; ICAM; VCAM; tryptase a; tryptase b; PDE4 A; PDE4 B; PDE4 C; PDE4 D; respiratory disease; lung disease; hyper-responsiveness; adenosine; adenosine A receptor; asthma; lung allergy; inflammation; inflammatory disease; asthma; lung allergy; inflammation; inflammatory disease; CF chronic obstructive pulmonary disease; COPD; allergic rhinitis; acute respiratory distress syndrome; pulmonary hypertension;
(NYCE/) NYCE J W.
(SAND/) SANDRASAG
(TANG/) TANG L.
                                                                                                                                                    23-APR-2002; 2002WO-US013135
23-APR-2002; 2002WO-US013143
                                                                                                                                                                                                                                                               25-JUL-2003; 2003US-00627930
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                                                                                                                                                                                                                                                                                                                                                                                                            US2004049022-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      inflammation; bronchitis; airway obstruction; bronchoconstriction
   SANDRASAGRA A. TANG L.
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CF;

Example 4; SEQ ID NO 16; 31pp; German

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RESULT 2137
ADM15393/c
                                        The present sequence represents a chimeric antisense oligonucleotide targeted to human microsomal prostaglandin E2 synthase (mpGES-1). The human mPGES-1 gene is located on chromosome 9, more specifically to 9934.3. The present invention also describes: (1) antisense compounds, having a sequence comprising 8-30 bp targeted to a nucleic acid encoding mpGES-1, which specifically hybridise with the nucleic acid mpGES-1 and inhibite its expression; (2) a method of inhibiting the expression of mpGES-1 in cells or tissues; and (3) a method of treating an animal having a disease or condition associated with mpGES-1. MpGES-1 chimeric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  chimeric; antisense oligonucleotide; phosphorothioate; human; microsomal prostaglandin E2 synthase; mpGES-1; mpGES-1 inhibitor; microsomal prostaglandin E2 synthase inhibitor; cytostatic; antidiabetic; immunomodulator; cardiant; neuroprotective; antiinflammatory; immunomodulator; cardiant; neuroprotective; antiinflammatory; immunomodulatory; cardiovascular; gene therapy; inflammation; hlzheimer's disease; arthritis; diabetes; cancer; ischaemia; reperfusion injury; ophthalmic disorder; immunological disorder;
                                                                                                                                                                                                                                               New antisense compound, having a sequence targeted to a nucleic acid encoding mPGES-1, useful for preparing a composition for treating e.g. inflammation, Alzheimer's disease, arthritis, diabetes, cancer or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   modified_base
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              antisense oligonucleotides and antisense compounds have cytostatic,
antidiabetic, immunomodulator, cardiant, neuroprotective,
                                                                                                                                                                                                    Claim 4; SEQ
                                                                                                                                                                                                                                                                                                                                                                                                            25-SEP-2002;
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antiinflammatory,
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                                                                                                                                                                                                  ID NO 1580; 132pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                            2002US-0413549P
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16. .20
/*tag=
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/note= "2'-O-met
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e= "2'-O-methocyethyls"
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             cardiant, neuroprotective
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Synthetic.
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microsomal prostaglandin E2 synthase; mPGES-1; mPGES-1 inhibitor;
microsomal prostaglandin E2 synthase inhibitor; cytostatic; antidiabetic;
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llarity 93.8%;
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residues are 5-methylcytidines"
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e= "2'-O-methoxyethyls"
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New antisense compound, having a sequence targeted to a encoding mPGES-1, useful for preparing a composition fo inflammation, Alzheimer's disease, arthritis, diabetes,

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Matches
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Best Local (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             antiinflammatory, neuroprotective, nootropic, antiarthritic, vasotropic, ophthalmological, immunomodulatory and cardiovascular activities, and can be used as mPGES-1 inhibitors and in gene therapy. The antisense compound can be used for preparing a composition for treating a disease or condition associated with mPGES-1 e.g., inflammation, Alzheimer's disease, arthritis, diabetes, cancer, ischaemia or reperfusion injury, or ophthalmic, immunological, cardiovascular or neurological disorder.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                targeted to human microsomal prostaglandin E2 synthase (mPGES-1). The human mPGES-1 gene is located on chromosome 9, more specifically to 9934.3. The present invention also describes: (1) anticana.
chimeric; antisense oligonucleotide; phosphorothioate; human;
microsomal prostaglandin E2 synthase; mpcES-1; mpcES-1 inhibitor;
microsomal prostaglandin E2 synthase; inhibitor; cytostatic; antidiabetic;
immunomodulator; cardiant; neuroprotective; antiinflammatory;
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nilarity 93.8%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 _base= OTHER
e= "2'-O-methoxyethyls"
                                                                                                                                                                                                                                                                                            20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4 G; 7 T;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 14.4; DB 1;
Pred. No. 1.1e+03;
0; Mismatches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 1;
                                                                                                                               SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 20;
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The present sequence represents a chimeric antisense oligonucleotide CC targeted to human microsomal prostaglandin E2 synthase (mpCES-1). The Chuman mpGES-1 gene is located on chromosome 9, more specifically to CC 9q34.3. The present invention also describes: (1) antisense compounds, CC having a sequence comprising 8-30 bp targeted to a nucleic acid encoding CC mpGES-1, which specifically hbridise with the nucleic acid mpGES-1 and CC inhibits its expression; (2) a method of inhibiting the expression of mCCS having a disease or condition and (3) a method of treating an animal CC having a disease or condition and antisense compounds have cytostatic, cantisense oligonuclectides and antisense compounds have cytostatic, cantidiabetic, immunomodulator, cardiant, neuroprotective, antisinflammatory, neuroprotective, nootropic, antisinflammatory, neuroprotective, nootropic, antisinflammatory, neuroprotective, nootropic, antisinflammatory, inhibitors and in gene therapy. The antisense compound can be used as mPGES-1 inhibitors and in gene therapy. The antisense compound CC condition associated with mPGES-1 e.g., inflammation, Alzheimer's CC condition associated with mpGES-1 e.g., inflammation, Alzheimer's CC ophthalmic, immunological, cardiovascular or neurological disorder.
                                                  Query Match
Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New antisense compound, having a sequence targeted to encoding mPGES-1, useful for preparing a composition inflammation, Alzheimer's disease, arthritis, diabetes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   neuroprotective; nootropic; antiarthritic; vasotropic; ophtha: immunomodulatory; cardiovascular; gene therapy; inflammation; Alzheimer's disease; arthritis; diabetes; cancer; ischaemia; reperfusion injury; ophthalmic disorder; immunological disorde cardiovascular disorder; neurological disorder; ss.
                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens.
Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 4; SEQ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (PHAA ) PHARMACIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             25-SEP-2002; 2002US-0413549P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              25-SEP-2003; 2003WO-US030374
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     2260
                                                  Similarity
GGTTTGGGGATCTTAA
                                                                                                                                                      20
                                                                                                                                                      B₽;
                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ID NO 54; 132pp; English
                                                                                                                                                      σ
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16. .20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Location/Qualifiers
1. .20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /note= "phosphorothioate linkages
residues are 5-methylcytidines"
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                                                                                                                                                   A; 1 C; 5
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                                                                       0.3%;
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.e= "2'-O-methocyethyls"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            _base= OTHER
== "2'-O-methoxyethyls"
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                                                  0
                                                                                                                                                   G; 8 T;
                                             Pred. No. 1.16
0; Mismatches
                                                                                                   Score
                                                                                                   14.4;
                                                                                                                                                   o u;
                                                                            1.1e+03
                                                                                                                                                   0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                diabetes, cancer
                                                                                                   Length
                                                     Indels
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 RESULT 2134
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Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                         nucleic acid molecule encoding Navl.3, where the antisense compound specifically hybridizes with and inhibits the expression of Navl.3. The compound and composition are useful for treating a disease or condition associated with Navl.3, e.g. pain including but not limited to neuropathic pain, post-herpetic neuralgia, chronic pain, lower back pain, pain from burns, migraine headache, cluster headache, mild-to-moderate headache; seizure disorder such as childhood seizure disorder, including but not limited to neonatal or infantile epilepsy; or ataxia. The present sequence represents a chimeric phosphorothioate oligonucleotide with 2'MOE wings and a deoxy gap. Used during the antisense inhibition of human Navl.3 expression, the oligonucleotides are designed to target different regions of the human Navl.3 RNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New antisense compound targeted to a nucleic acid molecule encoding Nav1.3, useful for useful for treating a disease or condition associated with Nav1.3, e.g. pain, seizure disorder such as childhood seizure disorder, or ataxia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI;
                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       14-AUG-2002; 2002US-0403416P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 4; SEQ ID NO 6656; 417pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               14-AUG-2003; 2003WO-US025465
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO2004016754-A2
                                                                                  Mycobacterium
                                                                                                          microorganism
                                                                                                                    non-contiguous single-stranded region; NCSR; cleavage structure;
clinical; diagnostic; microorganism detection;
                                                                                                                                             nucleic acid analysis; hepatitis C virus;
                                                                                                                                                                    Mycobacterium tuberculosis katG PCR primer seq
                                                                                                                                                                                             03-JUN-2004
                                                                                                                                                                                                                                            ADK82231 standard; DNA;
18-JUL-2000; 2000US-00402618.
                      23-MAR-2004.
                                              US6709815-B1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (PHAA)
                                                                                                                                                                                                                                                                                                                             5198 GAATGCAGAAGGGAAT 5213
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15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PHARMACIA CORP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      invention relates to an antisense compound targeted to
                                                                                                                                                                                                                                                                                                                                                                                                    BP; 3 A; 6 C; 1 G; 10 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                           (first entry)
                                                                                  tuberculosis
                                                                                                        identification;
                                                                                                                                                                                                                                                                                                                                                                93.8%;
                                                                                                                                                                                                                                            20
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                                                                                                                                                                                                                                            ВP
                                                                                                                                                                                                                                                                                                                                                      <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                  Score 14.4;
Pred. No. 1.
                                                                                                          katG; target variant; PCR; primer;
                                                                                                                                                                                                                                                                                                                                                      Mismatches
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                                                                                                                                                                                                                                                                                                                                                                             DB 1; Length 20;
                                                                                                                                                                     id
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RESULT 2135
ADM15513/c
ID ADM1551
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Matches 15
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19-SEP-1997;
03-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        providing a target nucleic acid, e.g. hepatitis C virus nucleic acid having non-contiguous single-stranded regions (NCSR) separated by an intervening region, a bridging oligonucleotide capable of binding to the first and second NCSR; a second oligonucleotide binding to a portion of the first NCSR and a cleavage agent, and mixing the contents to form a cleavage structure. The method is useful for analysing nucleic acids, e.g. hepatitis C virus nucleic acid useful for clinical diagnostic purposes and detection and identification of pathogenic microorganisms such as hepatitis C virus. This sequence represents a primer used in the isolation of Mycobacterium tuberculosis katG gene polynucleotide labelled with tetrachlorofluorescein (TET) used to demonstrate the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Dong F,
Anderson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Analyzing nucleic acids, comprises mixing target nucleic acid such hepatitis C virus nucleic acid, bridging oligonucleotide, second oligonucleotide and cleavage agent to form cleavage structure.
                                                                                                                                                                                                                          chimeric; antisense oligonucleotide; phosphorothioate; human; microsomal prostaglandin £2 synthase; mpGES-1 imhIbitor; microsomal prostaglandin £2 synthase imhIbitor; cytostatic; antidiabetic; immunomodulator; cardiant; neuroprotective; antiinflammatory; neuroprotective; noctropic, antiarthritic; vasotropic, ophthalmological; immunomodulatory; cardiovascular; gene therapy; inflammation; Alzheimer's disease; arthritis; diabetes; cancer; ischaemia; repetfusion injury; ophthalmic disorder; immunological disorder;
                                                                                                                                                                                                                                                                                                                                                                                                          Human mPGES-1 chimeric antisense oligonucleotide SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 20 BP; 5 A; 6 C; 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         methods of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 1; SEQ ID NO 8; 143pp; English.
modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADM15513;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADM15513 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention describes a method of analysing nucleic acids comprising
                                                                                                                                                     Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (THIR-)
                                                                                             modified_base
                                                                                                                                                                          Homo sapiens.
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TA, Dahlberg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GACCAGCGGCCCAAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        97US-00851588.
97US-00934097.
98US-00034205.
                                                                                                                                                                                                                disorder;
              /mod_base= OTHER
/note= "phosphorothioate linkages and all cytidine
/note= "phosphorothioate linkages and all cytidine
residues are 5-methylcytidines"
                                                                                                             Location/Qualifiers
                                                                          /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DNA;
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                                                                                                                                                                                                              neurological
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Pred. No. 1.1e+03;
0; Mismatches 1;
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                                                                                                                                                                                                                disorder;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 20;
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                                                                                                                                                                                                                                                                                                                                                                                                              NO:1700
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RESULT 2131
ADK77570/c
ID ADK7757
XX ADK7757
XX ADK7757
XX Chimeri
XX Nav1.3,
YKW diabeti
KW infanti
XX W No20040
YX W W020040
YX W W020040
YX W W020040
YX H14-AUG-
YX H2-AUG-
YX H2-AUG-
YX PH Roberde
XX (PHAA)
XX PH Roberde
XX WPI; 20
XX WPI
ADK79699/c
ID ADK79699 standard; DNA;
                                                          RESULT 2132
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Best Local S
Matches 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention relates to an antisense compound targeted to a nucleic acid molecule encoding Nav1.3, where the antisense compound specifically hybridizes with and inhibits the expression of Nav1.3. The compound and composition are useful for treating a disease or condition associated with Nav1.3, e.g. pain including but not limited to neuropathic pain, post-herpetic neuralgia, chronic pain, lower back pain, diabetic neuropathy, trigeminal neuropathy, arthritic pain, acute pain, diabetic neuropathy, trigeminal neuropathy, arthritic pain, acute pain, pain from burns, migraine headache, cluster headache, mild-to-moderate headache; seizure disorder such as childhood seizure disorder, including but not limited to neonatal or infantile epilepsy; or ataxia. The present sequence represents a chimeric phosphorothicate oligonuclectide with
                                                                                                                                                                                                                                                                                                                                                                                                                         2'MOE wings and a deoxy gap. Used during the antisense inhibition of human Nav1.3 expression, the oligonucleotides are designed to target different regions of the human Nav1.3 RNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New antisense compound targeted to a nucleic acid molecule encoding Nav1.3, useful for useful for treating a disease or condition associated with Nav1.3, e.g. pain, seizure disorder such as childhood seizure
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2004-203785/19.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      14-AUG-2002; 2002US-0403416P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Nav1.3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Chimeric phosphorothioate oligonucleotide to target Nav1.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20-MAY-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADK77570 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO2004016754-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 infantile epilepsy; ataxia; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (PHAA ) PHARMACIA CORP.
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                                                                                                                                                                                                                                                       l Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Analgesic;
                                                                                                                                                                                 GAATGCAGAAGGGAAT 5213
                                                                                                                                                                                                                                                                                                                                                                        20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQ ID NO 4904; 417pp;
                                                                                                                                           GAATGCAAAAGGGAAT 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           neuropathy; arthritic pain;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GAATGCAGAAGGGAAT 5213
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GAATGCAAAAGGGAAT 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          or ataxia.
                                                                                                                                                                                                                                                                                                                                                                        вÞ;
                                                                                                                                                                                                                                                       Conservative
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                                                                                                                                                                                                                                                                                                                                                                     4 A;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Nootropic; Neuroprotective;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       entry
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C;
                                                                                                                                                                                                                                                                              93.8%;
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                                                                                                                                                                                                                                                                                                                                                                     1 G; 9 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ВP
                                                                                                                                                                                                                                                    Score 14.4; D
Pred. No. 1.1e
0; Mismatches
                                                                                                                                                                                                                                                       °.
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                                                                                                                                                                                                                                                                                                                                                               0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           rotective; post-herpetic neuralgia;
migraine headache;
                                                                                                                                                                                                                                                                                 .1e+03
                                                                                                                                                                                                                                                                                                              DB 1;
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(first

entry)

Navl.3; Analgesic; Nootropic; Neuroprotective; diabetic neuropathy; arthritic pain; migraine l

pain;

post-herpetic neuralgia;

ataxia;

Chimeric phosphorothioate oligonucleotide to target Nav1.3 #6656

ADK79322, RESULT 2133

ADK79322

standard;

DNA;

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ВP

ADK79322; 20-MAY-2004

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Best Loc
Matches
                                                                                                    Query Match
                                                                                                                                                                                                    The present invention relates to an antisense compound targeted to a nucleic acid molecule encoding Navl.3, where the antisense compound specifically hybridizes with and inhibits the expression of Navl.3. The compound and composition are useful for treating a disease or condition associated with Navl.3, e.g. pain including but not limited to neuropathic pain, post-herpetic neuralgia, chronic pain, lower back pain, diabetic neuropathy, trigeminal neuropathy, arthritic pain, acute pain, pain from burns, migraine headache, cluster headache, mild-to-moderate headache, seizure disorder such as childhood seizure disorder, including but not limited to neonatal or infantile epilepsy; or ataxia. The present sequence represents a chimeric phosphorothicate oligonucleotide with 2'MOE wings and a deoxy gap. Used during the antisense inhibition of human Navl.3 expression, the oligonucleotides are designed to target different regions of the human Navl.3 RNA.
                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New antisense compound targeted to a nucleic acid molecule encoding Nav1.3, useful for useful for treating a disease or condition associated with Nav1.3, e.g. pain, seizure disorder such as childhood seizure disorder, or ataxia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 4; SEQ ID NO 7033; 417pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2004-203785/19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       infantile
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Nav1.3; Analgesic; Nootropic; Neuroprotective; post-herpetic neuralgia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Chimeric phosphorothioate oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20-MAY-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             diabetic neuropathy; arthritic pain; migraine headache;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADK79699;
                                                                               Local
5198 GAATGCAGAAGGGAAT
                                                   l Similarity
15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PHARMACIA CORP.
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                                                                                                                                                        B₽;
                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2003WO-US025465
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                                                                               Score 14.4;
Pred. No. 1
                                                   Pred. No. 1.1
                                                                                                                                                        10 T; 0 U; 0 Other;
                                                                            .1e+03;
                                                                                                    DB 1; Length 20;
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                                                      Indels
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                                                 Gaps
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RESULT 2129
ADK76951/c
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Best Local S
Matches 15
        The present invention relates to an antisense compound targeted to a nucleic acid molecule encoding Nav1.3, where the antisense compound specifically hybridizes with and inhibits the expression of Nav1.3. The compound and composition are useful for treating a disease or condition associated with Nav1.3, e.g. pain including but not limited to neuropathic pain, post-herpetic neuralgia, chronic pain, lower back pain diabetic neuropathy, trigeminal neuropathy, arthritic pain, acute pain, pain from burns, migraine headache, cluster headache, mild-to-moderate pain from burns, migraine headache, cluster headache, mild-to-moderate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention relates to antisense oligonucleotides (ADJ21603-ADJ25510) targeted to human Endothelial Lipase (EL) coding sequence (ADJ25517) where the antisense oligonucleotide specifically hybridises with and inhibits the expression of EL. The antisense oligonucleotides are useful for modulating the expression of endothelial lipase in cells or tissues to treat diseases associated with EL expression, such as dyslipidaemia, low high density lipoprotein (HDL), cardiovascular disorder or metabolic syndrome X. In addition, the oligonucleotides are used for diagnostics, prophylaxis, or as research reagents or kits.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New antisense oligonucleotide for modulating endothelial lipase expression, for diagnosing, preventing or treating e.g. dyslipidemia, high density lipoprotein or cardiovascular disorders.
                                                                                                                                                                                                  New antisense compound targeted to a nucleic acid molecule encoding Nav1.3, useful for useful for treating a disease or condition associated with Nav1.3, e.g. pain, seizure disorder such as childhood seizure disorder, or ataxia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            26-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Nav1.3; Analgesic; Nootropic; Neuroprotective; post-herpetic neuralgia; diabetic neuropathy; arthritic pain; migraine headache;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                    Claim 4; SEQ ID NO 4285;
                                                                                                                                                                                                                                                                                                                                                                                                                         14-AUG-2003; 2003WO-US025465.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO2004016754-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Chimeric phosphorothioate oligonucleotide to target Nav1.3 #4285
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADK76951 standard;
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                                                                                                                                                                                                                                                                                                                                                          (PHAA)
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                                                                                                                                                                                                                                                                                      2004-203785/19
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                                                                                                                                                                                                                                                                                                                                                          PHARMACIA CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20 BP; 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              epilepsy;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20
                                                                                                                                                                  417pp; English
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Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
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                                             lower back pain,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0
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Query Match Best Local Similarity

0.3%;

Score 14.4; Pred. No. 1.

4; DB 1; 1.1e+03;

Length

20

6 C; 1 G; 10 T; 0 U;

0 Other;

the human

Nav1.3

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RESULT 2130
ADK77414/c
ID
ADK777414;
XX
AC
ADK777414;
XX
Chimeric phosphorothioate
XX
Nav1.3; Analgesic; Nootrop
XX
Mav1.3; Analgesic; Nootrop
XX
Way1.3; Analgesic; Nootrop
XX
Chimeric phosphorothioate
XX
Nav1.3; Analgesic; Nootrop
XX
XX
Chimeric phosphorothioate
XX
XX
OS
Synthetic.
XX
YA
PD
26-FEB-2004.
XX
XX
Chimeric phosphorothioate
XX
YA
PD
14-AUG-2003; 2003WO-US0254
XX
XX
YA
PF
14-AUG-2003; 2003WO-US0254
XX
XX
(PHAA) PHARMACIA CORP.
XX
XX
PT
XX
Roberds SL;
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Claim 4; SEQ ID NO 4748; (
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The present invention relace
CC nucleic acid molecule ency
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Best Local Similarity
Matches 15; Conserv
                                                                                   The present invention relates to an antisense compound targeted to a nucleic acid molecule encoding Navl.3, where the antisense compound specifically hybridizes with and inhibits the expression of Navl.3. The compound and composition are useful for treating a disease or condition associated with Navl.3, e.g. pain including but not limited to neuropathic pain, post-herpetic neuralgia, chronic pain, lower back pain, diabetic neuropathy, trigeminal neuropathy, arthritic pain, acute pain, pain from burns, migraine headache, cluster headache, mild-to-moderate headache; seizure disorder such as childhood seizure disorder, including but not limited to neonatal or infantile epilepsy; or ataxia. The present sequence represents a chimeric phosphorothicate oligonucleotide with 2'MOZ wings and a deoxy gap. Used during the antisense inhibition of human Navl.3 expression, the oligonucleotides are designed to target
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       but not limited to neonatal or infantile epilepsy; or ataxia. The prisequence represents a chimeric phosphorothicate oligonucleotide with 2'MOE wings and a deoxy gap. Used during the antisense inhibition of human Nav1.3 expression, the oligonucleotides are designed to target different regions of the human Nav1.3 RNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 4; SEQ ID NO 4748; 417pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New antisense compound targeted to a nucleic acid molecule encoding Nav1.3, useful for useful for treating a disease or condition assocwith Nav1.3, e.g. pain, seizure disorder such as childhood seizure disorder, or ataxia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              diabetic neuropathy; arthritic pain;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Nav1.3; Analgesic; Nootropic; Neuroprotective;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20 BP; 2 A; 7 C; 1 G; 10 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    epilepsy; ataxia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2003WO-US025465.
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Pred. No. 1
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RESULT 2127
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                                    19-JUL-2002; 2002US-0397106P
                                                                                        18-JUL-2003; 2003WO-US022410.
                                                                                                                                                                                                                                                                                                                                                                                                                                                modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human endothelial lipase antisense oligonucleotide,
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                                                                                                                                                                                                                                                                  /note= "This oligonucleotide has a phosphorothioate backbone and 2-'methyoxyethyl (2'-MOE) wings at the and 3' ends, which are 4 nucleotides in length. Also cytidine residues are 5-methylcytidines"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Location/Qualifiers
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WPI; 2004-132912/13.

19-JUL-2002; 2002US-0397106P

(PHAA)

PHARMACIA

CORP

18-JUL-2003; 29-JAN-2004. WO2004009541-A2.

2003WO-US022410

modified_base

/*tag=

Location/Qualifiers

/mod_base= OTHER
/note= "This oligonucleotide has a phosphorothioate
backbone and 2-'methyoxyethyl (2'-MOE) wings at the 5'
and 3' ends, which are 4 nucleotides in length. Also all
cytidine residues are 5-methylcytidines"

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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADJ25510) targeted to human Endothelial Lipase (EL) coding sequence (ADJ25517), where the antisense oligonucleotide specifically hybridises with and inhibits the expression of EL. The antisense oligonucleotides are useful for modulating the expression of endothelial lipase in cells or tissues to treat diseases associated with EL expression, such as dyslipidaemia, low high density lipoprotein (HDL), cardiovascular disorder or metabolic syndrome X. In addition, the oligonucleotides are used for diagnostics, prophylaxis, or as research reagents or kits.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Bhat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New antisense oligonucleotide for modulating endothelial lipase expression, for diagnosing, preventing or treating e.g. dyslipidemia, high density lipoprotein or cardiovascular disorders.
                                                                                                                                                                                                                                                                                                                   Synthetic.
                                                                                                                                                                                                                                                                                                                                                        Antilipaemic; Cardiovascular; Analgesic; Antianginal; Antisense therapy; Human; Endothelial Lipase; dyslipidaemia; high density lipoprotein; HDL; cardiovascular disorder; metabolic syndrome X; ss.
                                                                                                                                                                                                                                                                                                                                                                                                            Human endothelial lipase antisense oligonucleotide, SEQ ID 3130
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADJ24732 standard; DNA; 20-BP.
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15; Conserv
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Pred. No. 1.
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Best Local S
Matches 15
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variant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Nove1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   30-APR-2002; 2002JP-00129069
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               30-APR-2003; 2003JP-00126006
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    JP2004024247-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Synthetic.
                                                                modified_base
                                                                                                                                                  cardiovascular
                                                                                                                                                                                                     Human endothelial lipase antisense oligonucleotide,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       polymorphism;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Probe 36 used
                                                                                                          Synthetic.
                                                                                                                      Homo sapiens
                                                                                                                                                                          Antilipaemic;
                                                                                                                                                                                                                                20-MAY-2004
                                                                                                                                                                                                                                                                                       ADJ24691
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (KOKU-) KOKUSAI SHIYAKU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                     1603
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     probe for detecting gene polymorphism, contains oligonucleotide is complementary to target sequence, has artificial mismatch with target, and has original mismatch with respect to allelic
                                                                                                                                                                                                                                                                                                                                                            w
                                                                                                                                                                                                                                                                                                                                                                                                                 15;
                                                                                                                                                                Endothelial Lipase;
                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          to target, of target.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQ ID NO 36; 74pp; Japanese.
                                                                                                                                                                                                                                                                                        standard;
                                                                                                                                                                                                                                                                                                                                                                             AGGAGAAGATCCTGCG 1618
                                                                                                                                                                                                                                                                                                                                                          AGGAGAAGCTCCTGCG 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BP; 4 A;
                                                                                                                                                                                                                                                                                                                                                                                                               0.3%;
ilarity 93.8%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first
                                                                                                                                                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                               Cardiovascular; Analgesic; Antiangin
elial Lipase; dyslipidaemia; high den
r disorder; metabolic syndrome X; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      genetic
                                                                 Location/Qualifiers
1. .20
/*tag= a
/mod_base= OTHER
/note= "This oligonucleotide has a phosphorothioate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               detect polymorphism in human HLA-DRB1 exon 2 DNA.
                                                                                                                                                                                                                                                                                     DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      7 C; 6 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      variation; exon
                                                                                                                                                                                                                                                                                       20
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                                                                                                                                                                                                                                                                                       ВP
                                                                                                                                                                                                                                                                                                                                                                                                               <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                               Score 14.4; D
Pred. No. 1.1e
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2; HLA-DRB1; human; probe;
                                                                                                                                                                                                                                                                                                                                                                                                                              .1e+03
                                                                                                                                                                           Antianginal;
                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 1;
                                                                                                                                                            density
                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                     SEQ ID 3089.
                                                                                                                                                                           Antisense
                                                                                                                                                             Antisense therapy;
lipoprotein; HDL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        mismatch with to allelic
                                                                                                                                                                                                                                                                                                                                                                                                               <u>;</u>
                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      base
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RESULT 2126
ADJ24799
ID ADJ2479
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Best Local Similarity
Matches 15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention relates to antisense oligonucleotides (ADJ21603-ADJ25510) targeted to human Endothelial Lipses (EL) coding sequence (ADJ25517), where the antisense oligonucleotide Specifically hybridises with and inhibits the expression of EL. The antisense oligonucleotides are useful for modulating the expression of endothelial lipses in cells or tissues to treat diseases associated with EL expression, such as dyslipidaemia, low high density lipoprotein (HDL), cardiovascular disorder or metabolic syndrome X. In addition, the oligonucleotides are used for diagnostics, prophylaxis, or as research reagents or kits.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 20 BP; 8 A; 8 C; 1 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New antisense oligonucleotide for modulating endothelial lipase expression, for diagnosing, preventing or treating e.g. dyslipidemia, low high density lipoprotein or cardiovascular disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO2004009541-A2
                                                                                                                                                                      Homo sapiens.
Synthetic.
                                                                                                                                                                                                                              Antilipaemic; Cardiovascula
Human; Endothelial Lipase;
                                                                                                                                                                                                                                                                        Human endothelial lipase antisense oligonucleotide,
                                                                                                                                                                                                                                                                                                                                   ADJ24799;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 3; SEQ ID NO 3089; 1007pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29-JAN-2004.
                                                                                                                                                                                                                cardiovascular
                                                                                                                                                                                                                                                                                                       20-MAY-2004
                                                                                                                                                                                                                                                                                                                                                              ADJ24799 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2004-132912/13.
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                                                                                                                          modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3241
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                                                                                                                                                                                                                                                                                                                                                                                                                                      TCAACCACAACTACAT 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                               TCAACCCCAACTACAT 3256
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                Cardiovascular; Analgesic; Antianginal; Antisense therapy; lelial Lipase; dyslipidaemia; high density lipoprotein; HDL; c disorder; metabolic syndrome X; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        backbone and 2-'methyoxyethyl (2'-MOE) wings at the sand 3' ends, which are 4 nucleotides in length. Also cytidine residues are 5-methylcytidines"
                                                    /note= "This oligonucleotide has a phosphorothioate backbone and 2-'methyoxyethyl (2'-MOE) wings at the and 3' ends, which are 4 nucleotides in length. Also
                                          cytidine
                                                                                                                                         Location/Qualifiers
                                                                                                               /*tag=
                                                                                                                                                                                                                                                                                                                                                                DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          93.8%;
                                                                                                base= OTHER
                                                                                                                                                                                                                                                                                                                                                                20
                                                                                                                                                                                                                                                                                                                                                                ВP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 14.4;
Pred. No. 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                          SEQ
                                                    wings at the :
length. Also
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WO2004009541-A2

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                                                                                                           The present invention relates to an oligonucleotide anti-sense to e.g., CC initiation codon, coding region with 2-10 nucleotides of 5'-end and 3'-cC end of nucleic acid target comprising gene(s) chosen from e.g. CC interleukin (IL)-4 receptor, IL-5 receptor or salts of the coligonucleotide and optionally surfactant operatively linked to the CC oligonucleotide. The method is useful for preventing or treating a CC respiratory or lung disease, which involves administering to the airways of a subject an effective amount of an inhibitor. The oligonucleotide is CC useful for production of a medicament for the prevention and/or treatment of a respiratory or lung disease. The respiratory or lung disease is CC chosen from airway inflammation, allergy(ies), asthma, impeded CC respiration, cystic fibrosis (CF), chronic obstructive pulmonary diseases (COPD), allergic rhintis (NR), acute respiratory distress syndrome (ARDS), pulmonary hypertension, lung inflammation, bronchitis, airway construction. The present sequence represents an oligonucleotide of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             밁
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ADJ59191/c
                                                   Query Match
Best Local S
Matches 15
                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                          Novel single or multiple target oligonucleotide anti-sense to e.g. initiation codons and introns of respiratory disease-relevant genes e.g., CCR1, RANTES, MCP4, useful for prophylaxis or treating respiratory
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                interleukin; IL-4 receptor; IL-5 receptor; lung disea airway inflammation; allergy; asthma; impeded respira cystic fibrosis; acute respiratory distress syndrome;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Shahabuddin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Nyce
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Oligonucleotide associated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   06-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADJ59191 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29-JUL-2002; 2002US-0399076P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         05-FEB-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   pulmonary hypertension; lung inflammation; bronchitis; oligonucleotide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              25-JUL-2003; 2003WO-US023509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (EPIG-)
                        1665 CAGCTCCTGCAGCAGA 1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              'n,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             sapiens.
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17
                                                   l Similarity
15; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                e.g.,
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CAGCTTCTGCAGCAGA
                                                                                                           20
                                                                                                                                                                                                                                                                                                                                                                        SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CTCTGCAAGGAGATCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTCTGCAAGGAGCTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Tang
in S,
                                                                                                         BP; 3
                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                      ID NO 47;
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Y L
                                                                                                                                                                                                                                                                                                                                                                                                   asthma.
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H, Cong H;
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                                                                0.3%;
                                                                                                         4 C; 8
                                                                                                                                                                                                                                                                                                                                                                      85pp;
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                                                   0;
                                                                                                        G; 5 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                      English.
                                                                Score 14.4;
Pred. No. 1
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                                                    Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Aguilar
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                                                              .1e+03;
                                                                                                         0 Other;
                                                                             DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             'n
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         lung disease;
ded respiration;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Miller
                                                                             Length 20;
                                                    Indels
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ADL88536;

RESULT 2124 ADL88536

ADL88536

standard;

DNA;

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RESULT 2123
ADJ53407/c
                                                                                              Query Match
Best Local S
Matches 15
                                                                                                                                                                                                                                                            The invention relates to an antisense oligonucleotide targeted to a nucleic acid encoding the human G protein-coupled receptor 6 (GPCR-6), which specifically hybridises with the nucleic acid encoding the GPCR-6 and inhibits expression of the GPCR-6. The antisense oligonucleotide comprises at least one modified internucleoside linkage, i.e. a phosphorothioate linkage, at least one modified sugar moiety, preferably a 2'-O-methoxyethyl sugar moiety, or at least one modified nucleobase comprising a 5-methylcytosine. The antisense oligonucleotides are useful for inhibiting expression of the GPCR-6 and in preparation of a composition for treating a disease or condition associated with GPCR-6, e.g., a metabolic disorder, aberrant signal transduction in brain tissue, a neuronal, motor, sensory, psychiatric or behavioural disorder or drug or chemical addiction. This sequence represents an antisense
                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Novel antisense compound targeted to nucleic acids encoding G protocoupled receptor 6 (GPCR-6), useful for treating animal having disconsisted with GPCR-6 e.g. metabolic, neuronal, motor, sensory or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; G protein-coupled receptor 6; GPCR-6; 88; antisense oligonucleotide; phosphorothioate linkage; 2'-O-methoxyethyl sugar moiety; 5-methylcytosine; metabolic aberrant signal transduction; brain tissue; neuronal disorde motor disorder; sensory disorder; psychiatric disorder; motor disorder; sensory disorder; psychiatric disorder;
                                                                                                                                                                                                                                            oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 15; SEQ ID NO 67; 54pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       31-JUL-2002; 2002US-00210479
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        31-JUL-2002; 2002US-00210479.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        05-FEB-2004.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             06-MAY-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Monia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (ISIS-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    behavioural disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADJ53407
                                             4900 CGAGGTGGGCAGCCAT
16
                                                                                                l Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          protein-coupled receptor 6 DNA antisense
                                                                                                                                                                                            20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    disorders
                                                                                                                                                                                            B₽;
                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
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                                                                                                                                                                                                                                            of the invention.
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                                                                                                                     93.8%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    addiction; chemical addiction; neuroleptic
                                                                                                                                                                                            G; 3
                                                                                           0;
                                                                                                                       Score 14.4;
Pred. No. 1
                                                                                                Pred. No. 1.1
); Mismatches
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                                                                                                                       .1e+03
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                                                                                                                                                                                            Other;
                                                                                                                                            Length
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                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  disorder;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           disorder;
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ADJ61654/c
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Best Local Similarity
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                                The present invention relates to an oligonucleotide anti-sense to e.g., initiation codon, coding region with 2-10 nucleotides of 5'-end and 3'-end of nucleic acid target comprising gene(s) chosen from e.g. interleukin (II)-4 receptor, II-5 receptor or salts of the oligonucleotide and optionally surfactant operatively linked to the oligonucleotide and optionally surfactant operatively linked to the oligonucleotide. The method is useful for preventing or treating a respiratory or lung disease, which involves administering to the airways of a subject an effective amount of an inhibitor. The oligonucleotide is useful for production of a medicament for the prevention and/or treatment of a respiratory or lung disease. The respiratory or lung disease is chosen from airway inflammation, allergy(ies), asthma, impeded respiration, cystic fibrosis (CF), chronic obstructive pulmonary diseases (ODD), allergic rhinitis (AR), acute respiratory distress syndrome (ARDS), pulmonary hypertension, lung inflammation, bronchitis, airway that the first of the present a recent of the invertence of t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  interleukin; IL-4 receptor; IL-5 receptor; lung disease; airway inflammation; allergy; asthma; impeded respiration; cystic fibrosis; acute respiratory distress syndrome;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           Novel single or multiple target oligonucleotide anti-sense to e.g. initiation codons and introns of respiratory disease-relevant genes e.g., CCR1, RANTES, MCP4, useful for prophylaxis or treating respiratory
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                                        The present invention relates to an oligonucleotide anti-sense to e.g., CC initiation codon, coding region with 2-10 nucleotides of 5'-end and 3'-end and of nucleic acid target comprising gene(s) chosen from e.g. CC end of nucleic acid target comprising gene(s) chosen from e.g. CC coligonucleotide and optionally surfactant operatively linked to the CC oligonucleotide. The method is useful for preventing or treating a CC respiratory or lung disease, which involves administering to the airways of a subject an effective amount of an inhibitor. The oligonucleotide is compared to the prevention and/or treatment CC useful for production of a medicament for the prevention and/or treatment CC ensepiratory or lung disease. The respiratory or lung disease is CC chosen from airway inflammation, allergy(ies), asthma, impeded consen from airway inflammation, allergy(ies), asthma, impeded consention, cystic fibrosis (F), chronic obstructive pulmonary diseases CC (COPD), allergic rhinitis (AR), acute respiratory distress syndrome (ARDS), pulmonary hypertension, lung inflammation, bronchitis, airway obstruction. The present sequence represents an oligonucleotide of the
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Matches 15
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                                                                                                                                                                                                                                                                                                           Claim 2;
                                                                                                                                                                                                                                                                                                                                           disease
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din S,
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nilarity 93.8%;
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Query Match Best Local Similarity

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Sequence 20

BP; 4 A;

6 C; 5 G; 5 T; 0 U; 0 Other;

Matches

Conservative

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Score 14.4; Di Pred. No. 1.1e. 0; Mismatches

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                                                                                                                          This invention relates to a novel DNA molecule which comprises a DNA molecule made up of the following elements in a 5' to 3' direction: a first restriction endonuclease site; at 1 promoter site; at least one Tag gene comprising at least 5 20mer Tag sequences; a Poly A site having at least 21 consecutive A residues; a second restriction endonuclease site which may be the same or different than the first restriction endonuclease site; or a T7 Promoter on the opposite strand as the T3 promoter. The invention may be useful in nucleic acid analysis, in particular to synthetic Tag genes useful as assay controls, in assay development, product development and validation and for quality control. The present sequence is that of a Tag oligonucleotide probe which may be used during the creation of the novel DNA molecule of the invention.
                                                                                                                                                                                                                                                                                                                                         New DNA molecules made by annealing and extending overlapping oligonucleotides, useful in producing synthetic Tag genes usef controls, in assay development, product development and for qu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         restriction endonuclease site; T3 promoter site; Tag gene; Poly A site; T7 Promoter; nucleic acid analysis; synthetic Tag gene; assay control; assay development; product validation; quality control; probe; ss.
                                                                                                     Sequence
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                                                                                                                                                                                                                                                                                                       Disclosure;
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CC (PTPA), that specifically hybridises with the nucleic acid molecule encoding phosphatuse activator (PTPA), that specifically hybridises with the nucleic acid molecule CC encoding phosphotyrosyl phosphatese activator and inhibits the expression of phosphotyrosyl phosphatese activator and inhibits the expression CC of phosphotyrosyl phosphatese activator in central the compound CC and a pharmaceutical carrier or diluent, a method of inhibiting the compound and a pharmaceutical carrier or diluent, a method of inhibiting the CC expression of phosphotyrosyl phosphatese activator in cells or tissues, a CC with phosphotyrosyl phosphatese activator and a method of screening for CC an antisense compound. The disease or condition associated CC with phosphotyrosyl phosphatese activator and a method of screening for CC antisense compound is useful in modulating the function of nucleic acid molecules encoding phosphotyrosyl phosphatese activator. The CCC antisense compound can also be used as trools in differential and/or combinatorial analyses to elucidate expression patterns of a portion or the entire complement of genes expressed within cells and tissues. The compound can also be used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 2119
                                                                                                                                                                                                                                                                                                                                                                                New antisense compound targeted to a nucleic acid molecule encoding phosphotyrosyl phosphatase activator, for modulating expression of phosphotyrosyl phosphatase activator or treating hyperproliferative
                                                                                                                                                                                                                                                                                                                                 Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2004-132607/13.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-AUG-2002; 2002US-00211179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       05-FEB-2004.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; ss; antisense; phosphohyperproliferative disorder; inflammation; tumour.
                                                                                                                                                                                                                                                                                                  The invention relates to a compound 8-80 nucleobases in length targeted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-AUG-2002; 2002US-00211179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US2004023906-A1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          06-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADL17902
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADL17902 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        oligonucleotide targeting human PTPA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        antisense; phosphotyrosyl phosphatase activator; PTPA;
ferative disorder; developmental disorder; infection;
                                                                                                                                                                                                                                                                                                                                 SEQ ID NO 29; 131pp;
   diseases or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      XX,
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1. .20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /*tag= a
/mod_base= OTHER
/note= "2'-methoxyethyl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /*tag= c
/mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    linkages are
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       note= "All cytidines are 5-methylcytidines
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "2'-methoxyethyl
conditions associated with phosphotyrosyl
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                                                                                                                                                                                                                                                                                                                                 English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      residue"
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RESULT 2116
ADJ31681/c
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Best Local S
Matches 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Haem oxygenase 1; HO; hyperbilirubinaemia; neonatal jaundice; neurodegenerative disease; Alzheimer's disease; Parkinson's d antisense-therapy; nootropic; neuroprotective; human; phosphorothioate backbone; antisense; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human haem
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADJ31681 standard;
New antisense oligonucleotide compounds, useful for diagnosing,
                                          WPI; 2004-070587/07.
                                                                                                                                                                                                                          20-JUN-2002; 2002US-00178258
                                                                                                                                                                                                                                                                                                                    US2003235913-A1
                                                                                                                                                                                                                                                                                                                                                                                                                             modified_base
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                                                                                                                                      (ISIS-) ISIS
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                                                                                                                                      PHARM
                                                                                                                                                                                                                                                                                                                                                                                                        16. .20
/*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /mod_base= OTHER
/note= "Phosphorothioate backbone where all cytidines
5-methylcytidines"
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/mod_base= OTHER
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                                                                                                                                                                                                                                                                                                                                                                                   base= OTHER
                                                                                                                                                                                                                                                                                                                                                            "2'-methoxyethyl (2'-MOE) nucleotides"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        antisense oligonucleotide, ISIS #203116.
                                                                                                                                                                                                                                                                                                                                                                                                                                                       "2'-methoxyethyl
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Pred. No. 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                       (2'-MOE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                     nucleotides"
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The present invention relates to antisense compounds, compositions and methods used for modulating the expression of haem oxygenase (HO) 1. The methods and compositions of the present invention are useful for the diagnosis, prevention and/or treatment of diseases or conditions associated with aberrant expression or activity of haem oxygenase 1 such as sociated with aberrant expression or activity of haem oxygenase of sevention as the invention is also useful in antisense therapy. The present sequence is human haem oxygenase 1 target and fearable the present sequence is human haem oxygenase 1 target

New antisense oligonucleotide compounds, useful for diagnosing, preventing and/or treating conditions with aberrant activity of oxygenase 1, such as hyperbilirubinemia, neonatal jaundice and neurodegenerative diseases.

Example 15;

SEQ ID NO 54; 43pp; English

WPI; 2004-070587/07.

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RESULT 2117
ADJ31708
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Matches
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention relates to antisense compounds, compositions and methods used for modulating the expression of haem oxygenase (HO) 1. The methods and compositions of the present invention are useful for the diagnosis, prevention and/or treatment of diseases or conditions associated with aberrant expression or activity of haem oxygenase 1 such as hyperbilirubinaemia, neonatal jaundice and neurodegenerative diseases like Alzheimer's and Parkinson's diseases. The invention is also useful in antisense-therapy. The present sequence is human haem oxygenase 1 antisense oligonucleotide used in the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     preventing and/or treating conditions with aberrant activity of heme oxygenase 1, such as hyperbilirubinemia, neonatal jaundice and neurodegenerative diseases.
                                                                                                                                                                                                                                                                                                                                                                                                                  Haem oxygenase 1; HO; hyperbilirubinaemia; neonatal jaundice; neurodegenerative disease; Alzheimer's disease; Parkinson's disease; antisense-therapy; nootropic; neuroprotective; human; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 20 BP; 4 A; 5 C; 7 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                 antisense-therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human haem oxygenase 1 target DNA fragment
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                                                                                                                                                                                                                                                                 (ISIS-) ISIS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CAGTTCCTGCAGCAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                 PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 14.4;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
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RESULT 21
AD138614
ID AD138614
ID AD138614
XX AD138614
XX AD13
XX Dual
XX Cytc
XX Hom
XX US21
XX Cytc
XX US21

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Best Local Similarity
Matches 15; Conser
                   a nucleic acid molecule encoding dual specific phosphatase 6. The compound specifically hybridises with the nucleic acid molecule encoding dual specific phosphatase 6 and inhibits the expression of dual specific phosphatase 6. It specifically hybridises with at least an 8-nucleobase portion of a preferred target region on the nucleic acid molecule
                                                                                                                                                                                                                             New antisense oligonucleotides for modulating dual specific expression, useful for diagnosing, preventing or treating associated with the phosphatase, e.g. hyperproliferative
                                                                                                                              The invention
    encoaing
                                                                                                                                                                     Example 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                        18-JUL-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 18-JUL-2002; 2002US-00199221
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                                                                                                                                                                                                                                                                                                                                                           ₽P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   σ
of a preferred target region on the
                                                                                                                                                                                                                                                                                                                                                                                                    ISIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CGAGTTTTACAAGAAG 776
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CGAGTTTTAGAAGAAG 20
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                                                                                                                                                                                                                                                                                                                                                           Cowsert LM,
                                                                                                                                                                   SEQ ID NO 35;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           antiinflammatory; antisense therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ₽P;
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                                                                                                                                                                                                                                                                                                                                                                                                  PHARM
                                                                                                                                                                                                                                                                                                                                                                                                                                           2002US-00199221
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    disorder;
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                                                                                                                            describes a compound 8-80 nucleobases
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RESULT 2115
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Best Local
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                                            New antisense oligonucleotides for modulating dual specific expression, useful for diagnosing, preventing or treating or associated with the phosphatase, e.g. hyperproliferative or
                                                                                                                                                                                                                                                                                                                                                                                                           cytostatic; antiinflammatory; antisense therapy; dual specific phosphatase 6; hyperproliferative disorder; apoptosis; inflammatory disorder; developmental disorder; diagnostic; prophylax
                  Example
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RESULT 2112
ADI79507/c
ID ADI7950
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Matches 15
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New compounds, particularly antisense oligonucleotides targeted to nucleic acid encoding HMG-CoA reductase, useful for treating atherosclerosis, or a disease involving cholesterol metabolism or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADI79507
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US2004006031-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         HMG-CoA reductase; 3-hydroxy-3-methylglutaryl-Coenzyme A;
HMG-CoA reductase; cardiant; antiarteriosclerotic; antilipaemic;
antisense gene therapy; cardiovascular disorder; cholesterol metabolism;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human HMG-CoA
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The invention relates to novel compounds of 8-80 nucleobases in length targeted to, and which specifically hybridises with, a nucleic acid

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The invention relates to novel compounds of 8-80 nucleobases in length targeted to, and which specifically hybridises with, a nucleic acid molecule encoding 3-hydroxy-3-methylglutaryl-Coenzyme A (HMG-COA) reductase, and inhibits the expression of HMG-COA reductase. The novel compounds have cardiant, antiarteriosclerotic, and antilipaemic activities. The compound can be used to treat disorders by antisense gene therapy. The compounds, compositions and methods are useful for treating a disease or condition associated with HMG-COA reductase, such as a cardiovascular disorder e.g. atherosclerosis, or a disease or condition involving cholesterol metabolism. They are also useful in research and diagnostics for modulating the expression of HMG-COA reductase. This

New compounds, particularly antisense oligonucleotides targeted to nucleic acid encoding HMG-CoA reductase, useful for treating atherosclerosis, or a disease involving cholesterol metabolism or

Example 16; SEQ ID NO

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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cardiovascular disorder e.g. atherosclerosis, or a disease or condition involving cholesterol metabolism. They are also useful in research and diagnostics for modulating the expression of HMG-COA reductase. This
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 20 BP; 5 A; 6 C; 3 G; 6 T; 0 U; 0 Other,
                                                                                                                                                                                                                                                                                                                 02-JUL-2002; 2002US-00190366
                                                                                                                                                                                                                                                                                                                                         02-JUL-2002; 2002US-00190366.
                                                                                                                                                                                                                                                                                                                                                                 08-JAN-2004.
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                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                              HMG-CoA reductase; 3-hydroxy-3-methylglutaryl-Coenzyme A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human HMG-CoA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          22-APR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADI79704 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        polynucleotide sequence represents an antisense oligonucleotide of the
                                                                                                                                                                                                                                          WPI; 2004-081743/08.
                                                                                                                                                                                                                                                                                                                                                                                                                                                   antisense gene therapy; cardiovascular disorder; cholesterol metabolism;
                                                                                                                                                                                                                                                                  Dean
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            761 CGAGTTTTACAAGAAG 776
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                                                                                                                                                                                                                                                                                          ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CGAGTTTTAGAAGAAG
                                                                                                                                                                                                                                                                 Freier SM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  reductase antisense oligonucleotide,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.3%;
                                                                                                                                                                                                                                                                  Dobie KW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pred. No. 1.1e+03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 14.4;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 20;
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RESULT 2110
ADI80697/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 protein tyrosine phosphatase receptor type mu; PTPRM; cytostatic; antidiabetic; gene therapy; expression pattern; hyperproliferative disorder; cancer; metabolic disorder; diabetes; infection; inflammation; tumour formation; human; ss.
or diabetes or modulating expression of protein tyrosine phosphatase receptor type \mathtt{mu}.
                                                               New antisense compound targeted to a nucleic acid molecule encoding protein tyrosine phosphatase receptor type mu, useful for treating
                                                                                                                                                                                                                                                                                                                                                                                                                                           18-JUL-2002; 2002US-00200293.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3240
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 14.4;
Pred. No. 1.
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                                                                   cancer
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문 S

protein tyrosine phosphatase receptor type mu, useful for treating cordiabetes or modulating expression of protein tyrosine phosphatase

cancer

New antisense compound targeted to a nucleic acid molecule encoding

Example 45; SEQ

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104; 56pp; English

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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                This invention relates to a novel compound with an oligonucleotide 8-80 nucleotides in length targeted to a nucleic acid molecule encoding protein tyrosine phosphatase receptor type mu (PTPRM) which specifically hybridises with the nucleic acid molecule encoding PTPRM and inhibits the expression of PTPRM or specifically hybridises with at least 8-nucleotide portion of a preferred target region on a nucleic acid molecule encoding PTPRM. The invention may be useful for the production of compositions with a cytostatic or antidiabetic activity. In addition, the disclosed sequences may be useful for gene therapy. The compound, particularly the antisense oligonucleotide is useful in modulating the function of nucleic acid molecules encoding PTPRM. The antisense compound can also be used as research tools and diagnostics. It can also be used as tools in additional and/or combinatorial analyses to elucidate expression.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         patterns of a portion or the entire complement of genes expressed within cells and tissues. The compound can also be used for treating diseases or conditions associated with PTPRM, preferably hyperproliferative disorder, for example cancer or metabolic disorders, for example diabetes. The compound can also be used as prophylaxis, for example to prevent or delay infection, inflammation or tumour formation. The present sequence is that of an antisense oligonucleotide which may be used during the creation of
                                                                                                                                                       Cowsert
                                                                                                                                                                                                                                                                                                                                                                                            antidiabetic; gene therapy; expression pattern; hyperproliferative disorder; cancer; metabolic disorder; diabetes;
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                                                                                                                                                                                                                                                                                                                                                Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                               infection; inflammation; tumour formation; human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              compound of the invention.
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                                                                                                                                                      LM, Dobie KW;
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                                                                                                                                                                                                                                                                                                                                                                                                                         phosphatase receptor type
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Pred. No. 1.1e+03;
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ABD24118/c
comprising oligonucleotides, effective for alleviating chronchoconstriction, respiratory tract inflammation, allergies and reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors, surfactant depletion or hyposecretion, when administered to a mammal. The oligonucleotides are derived from a gene encoding or regulating expression of a target polypeptide associated with lung airway or lung dysfunction or cancer and can be anti-sense to the corresponding mRNA. The invention also describes a kit, that comprises: (a) a delivery device, in separate containers, (b) the oligonucleotides, (c) instructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, analgesic, hypotensive, immunosuppressive and cytostatic activity, is a beta-adrenergic agonist. The composition is useful for preventing or treating a respiratory, lung or mallgnant disease. The administered composition comprises oligo and is administered to reduce the production or availability, or to increase the degradation of the target mRNA or to
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Best Local S
Matches 15
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                                                                                                                                                                                                                                                                                                                               Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted nucleic acids associated with lung airway or lung dysfunction, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; antisense; bronchoconstriction; allergy; hyposecretion; pain; respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antiinflammatory; antiasthmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory distress syndrome; allergic rhinitis; pulmonary hyportension;
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                                                                                                                                                                                                                                                       This invention
                                                                                                                                                                                                                                                                                                                   bronchodilating agent.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           24-APR-2001; 2001US-0286036P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human calmodulin 2-derived oligonucleotide SEQ ID 3130
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Tang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; chronic obstructive pulmonary disease; transplantation rejection; ss; primer.
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Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted to nucleic acids associated with lung airway or lung dysfunction, and

reducing adenosine surfactant depletion bronchoconstriction, Claim 15;

SEQ ID NO 3429;

763pp; English.

invention

oligonucleotides,

cribes a novel composition (a) a first cleotides, effective for alleviating cleotides, effective for alleviating n, respiratory tract inflammation, all sensitivity, levels of adenosine (A) on or hyposecretion, when administered

first active

agent,

allergies and (A) or (A) receptors, ered to a mammal. The

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PHARM INC.

24-APR-2001; 2001US-0286036P

23-APR-2002; 2002WO-US013143

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WPI; 2003-093058/08

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RESULT 2109
ABD24417
AC ABD2441
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XX ABD2441
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Matches 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory distress syndrome; allergic rhinitis; pulmonary hypertension; emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human; antisense; bronchoconstriction; allergy; hyposecretion; pain; respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antiinflammatory; antiasthmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis;
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cc analgesic, hypotensive, immunosuppressive and cytostatic activity, is a control of the administered agonist. The composition is useful for preventing or treating a respiratory, lung or malignant disease. The administered composition comprises oligo and is administered to reduce the production cor availability, or to increase the degradation of the target mRNA or to reduce the amount of target polypeptide present in the lungs. The confidence of the larget mRNA or to reduce the amount of target polypeptide present in the lungs. The confidence of the larget mRNA or to reduce the amount of target polypeptide present in the lungs. The confidence of the larget mRNA or to reduce the amount of target polypeptide present hypoproduction are associated with a disease or condition such as pulmonary vascoonstriction, respiratory confidence syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary transplantation, emphysema, chronic obstructive pulmonary disease, pulmonary transplantation rejection, pulmonary infections, bronchitis or cancer. The reduced adenosine content of the anti-sense oligos corresponding to the oligonucleotides into products that free adenosine into the bystem content of the serves to prevent the breakdown of the oligonucleotides into products that free adenosine into the system content of the system cont
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This invention describes a novel composition (a) a first active agent, comprising oligonuclectides, effective for alleviating bronchoconstriction, respiratory tract inflammation, allergies and reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors, surfactant depletion or hyposecretion, when administered to a mammal. The oligonucleotides are derived from a gene encoding or regulating expression of a target polypeptide associated with lung airway or lung dysfunction or cancer and can be anti-sense to the corresponding mRNA. The invention also describes a kit, that comprises: (a) a delivery device, in separate containers, (b) the oligonucleotides, (c) instructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, in a parater of the composition of the invention has antiallergic, antiinflammatory, antiasthmatic.
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                                                                                                                                                                                           Sequence
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                                                        Similarity
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Tang L,
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CC The invention also describes a kit, that comprises: (a) a delivery moved of device, in separate containers, (b) the oligonucleotides, (c) instructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, analgesic, hypotensive, immunosuppressive and cytostatic activity, is a contrainer of the composition is useful for preventing or treating a respiratory, lung or malignant disease. The administered composition comprises oligo and is administered to reduce the production of availability, or to increase the degradation of the target mRNA or to reduce the amount of target polypeptide present in the lungs. The composition and/or bronchoconstriction are associated inflammation, allergies and/or surfaceant hypoproduction are associated with a disease or condition such as pulmonary vasoconstriction, transplantation, allergies, asthma, impeded respiration, respiratory confict of the anti-sense oligos corresponding to the reduced adenosine content of the anti-sense oligos corresponding to the oligonucleoties into produces that free adenosine into the system of the oligonucleoties into produce that free adenosine into the system of the content of the system into the system of the surface and thereby, to
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted nucleic acids associated with lung airway or lung dysfunction, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 15; SEQ ID NO 13283; 763pp; English.
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L, Shahabuddin
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                                                                                                                                            The invention comprises DNA sequences which are associated with intestinal epithelium and peyer's patch M cells. The DNA sequences of the invention are useful for assessing, modifying, modulating or regulating intestinal epithelium or M cell development. The DNA sequences of the invention are also useful in the treatment of: inflammatory bowel disease, glutenenteropathy, infectious diseases, autoimmune diseases (e.g. haemolytic anaemia, rheumatoid arthritis, dermatitis, Grave's disease, multiple sclerosis, allergy, asthma and diabetic mellitus), diseases or disorders of the immune system, hypersensitivity, anabylaxis, and blood group incompatibility. The present DNA sequence represents a PCR primer that was used to amplify an intestinal epithelium/peyer's patch M cell-associated DNA sequence of the invention.
                                                                                                                    Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                   Novel isolated or purified polypeptide encoded by genes associated with intestinal epithelium or M cell development, differentiation or function, useful for treating autoimmune diseases and infectious diseases.
                                                                                                                                                                                                                                                                                                                                                        Disclosure;
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inflammatory bowel disease; glutenenteropathy; infectious disease;
autoimmune disease; haemolytic anaemia; rheumatoid arthritis; dermatitis;
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                                                                         Similarity
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                                                                                                                    BP; 6 A; 9 C; 2 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                      SEQ ID NO 614;
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RESULT 2105

Human; antisense; bronchoconstriction; allergy; hyposecretion; pain;

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ABD30403/c
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Matches 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Grave's disease; multiple sclerosis; allergy; asthma; diabetic mellitus; immune system disorder; hypersensitivity; anaphylaxis; blood group incompatibility; ss; human; PCR; primer.
                         Human IL4-R derived oligonucleotide SEQ ID 12614.
                                                        29-JUL-2004
                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                            epithelium/peyer's patch M cell-associated DNA sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        useful for treating autoimmune diseases and infectious
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Novel isolated or purified polypeptide encoded by genes associated with intestinal epithelium or M cell development, differentiation or function
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                                                                                                                                                                                                                                                                   Local Similarity
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                                                                                                                  standard;
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Pred. No. 1.1e+03;
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           The invention relates to a novel pharmaceutical composition, which has a first active agent comprising an oligonucleotide antisense to the initiation codon, coding region, 5' or 3' end genomic flanking regions, 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of junctions of genes encoding a polypeptide associated with lung and/or nasal airway dysfunction and a second active agent comprising an cantiinflammatory steroid and ubiquinone. A composition of the invention has antiinflammatory, antiallergic, antiasthmatic, hypotensive, immunosuppressive, and cycostatic activity. The composition may have a use in antisense gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also for enhancing the prophylactic or therapeutic respiratory effect of an antisinflammatory steroid in a subject, for reducing levels of adenosine receptor, producing bronchodilation, increasing levels of ubiquinone or antiinflammatory static participation, increasing levels of ubiquinone or preventing and producing bronchodilation, increasing levels of ubiquinone or constitution.
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic; antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy; antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
                                                                                                                                                                                                                                                                                                          Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its respiration, has oligo(s) antisense to specific gene(s) or its responding RNAs, and glucocorticoid or non-glucocorticoid steroid or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ..uman; antisense;
antiinflammato
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             lung inflammation, lung allergies, or a respiratory disease or condition. Note: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                 Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                            Miller
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                                          The present invention relates to antisense oligonucleotides (ADA66459-ADA66609), which inhibit Transforming Growth Factor (TGF) beta-3 expression. The oligonucleotides are useful for inhibiting the expression of TGF-beta3 in cells or tissues, and for treating an animal having a disease condition associated with TGF-beta3, e.g. a hyperproliferative disorder such as cancers of lung, liver, colon, oesophagus, pancreas,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Cytostatic; antirheumatic; antiarthritic; gynecological; antiarteriosclerotic; Transforming Growth Factor beta-3; hyperprolificrative disorder; cancers; atherosclerosis; rheumatoid arthritis; preeclampsia; fibrosis; phosphoroti
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                lung inflammation, lung allergies, or a respiratory disease or Note: The sequence data for this patent is not represented in t specification, but was obtained in electronic format directly f at ftp.wipo.int/pub/published pct sequences
                                                                                                                                                               transforming
                                                                                                                                                                                                                                                                                                                                                                                                                                       modified_base
                     preeclampsia
                                  breast, skin or haematopoietic,
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                                                                                                                                                                                                   2003-229569/22.
                                                                                                                                                 antisense compound which is targeted to nucleic acid forming growth factor beta-3, and inhibits expression 1 for treating a condition associated with TGF-beta 3.
                                                                                                                              3; Page 88;
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                                                                                                                                                                                                                                                                                                                                                                              /note- "This oligonucleotide has a phosphorothioate backbone and 2 methyoxyethyl (2'-MOE) wings at the and 3' ends, which are 5 nucleotides in length. Also
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                      cytidine residues are
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                                                                                            The invention relates to a novel pharmaceutical composition, which has a first active agent comprising an oligonucleotide antisense to the initiation codon, coding region, 5' or 3' end genomic flanking regions, 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of junctions of genes encoding a polypeptide associated with lung and/or nasal airway dysfunction and a second active agent comprising an antiinflammatory steroid and ubiquinone. A composition of the invention has antiinflammatory, antiallergic, antiasthmatic, hypotensive, immunosuppressive, and cytostatic activity. The composition may have a use in antisense gene therapy. The composition is useful for treating or
            preventing a respiratory, lung or malignant disease or condition, also for enhancing the prophylactic or therapeutic respiratory effect of an antiinflammatory steroid in a subject, for reducing or depleting levels of, or reducing sensitivity to adenosine, reducing levels of adenosine receptor, producing bronchodilation, increasing levels of ubiquinone or
                                                                                                                                                                                                                                                                                                                                           Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     lung inflammation, 'lung allergies, or a respiratory disease or condition. Note: The sequence 'data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy; antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
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                                                                                                                                                                                                                                                                                           Disclosure; SEQ ID NO 12614; 872pp; English
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CC first active agent comprising an oligonucleotide antisense to the circumstance of the codon, codon, coding region, 5' or 3' end genomic flanking regions, 5' or 10 nucleotides of junctions of genes encoding a polypeptide associated with lung and/or nasal airway dysfunction and a second active agent comprising an antisinflammatory, antiallergic, antiasthmatic, hypotensive, 10 nas antisense gene therapy. The composition is useful for treating or 10 preventing a respiratory, lung or malignant disease or condition, also 11 for enhancing the prophylactic or therapeutic respiratory effect of an 11 antisense gene therapy to adenosine, reducing or depleting levels of adenosine receptor, producing sensitivity to adenosine, reducing levels of adenosine receptor, producing bronchodilation, increasing levels of adenosine or lung surfactant in a subject's tissue, or treating bronchoconstriction,

The invention relates to a novel pharmaceutical composition, which has first active agent comprising an oligonucleotide antisense to the initiation codon, coding region, 5' or 3' end genomic flanking regions

Disclosure; SEQ ID NO 3130; 872pp; English

mpiquinone

Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or

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RESULT 2101
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human oligonucleotide sequence
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The invention relates to a novel pharmaceutical composition, which has a CC first active agent comprising an oligonucleotide antisense to the CC initiation codon, coding region, 5' or 3' end genomic flanking regions, CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of CC junctions of genes encoding a polypeptide associated with lung and/or CC nasal airway dysfunction and a second active agent comprising an CC antiinflammatory steroid and ubiquinone. A composition of the invention CC immunosuppressive, and cytostatic activity. The composition may have a CC immunosuppressive, and cytostatic activity. The composition may have a CC greventing a respiratory, lung or malignant disease or condition, also CC for enhancing the prophylactic or therapeutic respiratory effect of an contininflammatory steroid in a subject, for reducing or depleting levels of of or reducing sensitivity to adenosine, reducing levels of adenosine receptor, producing bronchodilation, increasing levels of ubiquinone or lung surfactant in a subject's tissue, or treating bronchoconstriction,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 2098
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Matches
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                                                                                                                                                                                                                                                                                                                                                Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its respiration, has oligo(s) antisense to specific gene(s) or its respiration, has oligo(s) antisense to specific gene(s) or its respiration.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic; antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy; antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy; lung inflammation; respiratory disease; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         anticancer agent. BCRP protein is useful in conveying an anticancer agent to cancer cell. The method is efficient in identifying a safer anticancer -agent for treatment. The present sequence represents a PCR primer for
                                                                                                                                                                                                                                                                                                  Disclosure;
                                                                                                                                                                                                                                                                                                                                   ubiquinone.
                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2003-229219/22
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (EPIG-) EPIGENESIS PHARM INC
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, Tang L,
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L, Shahabuddin
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Best Local S
Matches 15
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                                                                                                                                                                                         Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
                                                                                                                                                                                                                                                                                                                                                                                               Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic; antiasthmatic; hypotensive; immunosupressive; ctostatic; gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy; lung inflammation; respiratory disease; ds.
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Tang
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L, Shahabuddin
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The invention relates to a novel pharmaceutical composition, which has a CC first active agent comprising an oligonucleotide antisense to the CC initiation codon, coding region, 5' or 3' end genomic flanking regions, CC initiation ocdon, coding region, or regions within 2-10 nucleotides of CI junctions of genes encoding a polypeptide associated with lung and/or consal airway dysfunction and a second active agent comprising an CC antiinflammatory steroid and ubiquinone. A composition of the invention can inflammatory, antiallergic, antiasthmatic, hypotensive, and cytostatic activity. The composition may have a CC use in antisense gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also for enhancing the prophylactic or therapeutic respiratory effect of an antisinflammatory steroid in a subject, for reducing or depleting levels of or reducing sensitivity to adenosine, reducing levels of ubiquinone or contribution. Disclosure; SEQ ID NO 12504; 872pp; English

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RESULT 2096
ADD93550/c
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Best Local S
Matches 15
                                                                                                                   15-MAR-2002; 2002US-0365034P.
19-MAR-2002; 2002US-0365477P.
21-MAR-2002; 2002US-0366420P.
05-MAR-2003; 2003US-00379747.
                                                                                                                                                                                                                                                                NOV3b; human; Clq-related factor; gene therapy; PCR; primer; ss
                                                                                                                                                                                                                                                                                       Novel nucleic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention relates to human TCH149 (ADE71371). TCH149 and encoded DNA are applicable in diagnosis of and developing drugs for respiratory diseases and kidney diseases e.g. asthma. The present sequence is a PCR primer, which was used in an example from the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Novel protein and encoded DNA TCH149 with activity in transporting organic ion, applicable in diagnosis of and developing drugs for
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08-MAY-2002; 2002JP-00133133.
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                                                                                                                                                                                                                                                                                                                                                       ADD93550 standard; DNA; 20 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            respiratory diseases and kidney diseases.
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                                WPI; 2003-779122/73
                                                                Burgess CE,
Malyankar UM,
                                                                                                                                                                          06-MAR-2003; 2003WO-US006859
                                                                                                                                                                                                                      WO2003078572-A2
                                                                                                                                                                                                                                          Homo sapiens
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                                                                                                (CURA-) CURAGEN CORP.
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                                                     Shimkets
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                                                                          Chant JS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Uno Y;
                                                                                                                                                                                                                                                                                      acid NOV3b (gene CG92035-01) reverse PCR primer.
                                                                 Miller
                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.3%;
                                                   RA,
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                                                    Chaudhuri A,
DE, Ooi CE, C
A, Zerhusen BD
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Pred. No. 1.1e+03
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                                                     BD;
                                                              Ort T, Patturajan M,
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                                                                          Gangolli EA;
                                                                 Rastelli L;
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New isolated NOVX polypeptides and preventing, diagnosing or treating

polynucleotides, useful for NOVX-associated disorders,

e.g.

designated as Q141K, V12M and Q126STOP. Identifying the gene polymorphism of BCRP of a test cell is useful for evaluating the expression grade of the side effect at the time of administering an anticancer agent to the test cell and evaluating the resistance of the test cell to the

The present invention relates to a method for evaluating the sensitivity of a cell to an anticancer agent. The method involves identifying a gene polymorphism in the human BCRP gene (the polymorphism is undefined in the specification). The gene polymorphisms encode variant BCRP polypeptides designated as 0.141K, V12M and 0.126STOP. Identifying the gene polymorphism designated as 0.141K, V12M and 0.126STOP.

the

Evaluating sensitivity of test cell to anticancer agent identifying gene polymorphism of BCRP.

involves

WPI; 2003-819597/77.

(GANK-) ZH GAN KENKYUKAI.

Disclosure; SEQ ID NO 21; 18pp; Japanese

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FFX8X555555555555555555555555
                                                                                                              The present sequence is that of a reverse primer for polynucleotide NOV3b (gene CG92035-01 ADD93533), identified as C1q-related factor. The primer CC was used in a primer-probe set to examine expression of the CG92035-01 CC gene in different screening panels. The invention is based on the CG identification of proteins and polypeptides, and the nucleic acids CC exceeding them, that are differentially modulated in a pathological state, CC disease or an abnormal condition or state. These are target for CC therapeutic agents and can be used in screening methodologies to identify CC candidate therapeutic agents which interact with the target and thereby CC exert a desired or favourable effect, e.g. in neurogenesis, cell CC differentiation, cell proliferation, haematopoiesis, wound healing and CC disorders involving the novel human nucleic acids and proteins are CC provided. The nucleic acids are further used in gene therapy, as CC hybridization probes and primers, in chromosome mapping, tissue typing, or the proventive medicine, and pharmacogenomics.
                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        asthma, or infections
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 osteoarthritis, obesity, atherosclerosis, cancer, Parkinson's disease,
                                                                           20 BP; 6 A; 5 C; 4 G; 5 T; 0 U; 0 Other;
93.8%;
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  Score 14.4;
Pred. No. 1
                                DB
                              1;
                         Length
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                                  Query Match
Best Local Similarity
Matches 15; Conserv
                 736
20
              TCTTCACCAAGCTGGA 751
TCTTCATCAAGCTGGA
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                                          1.1e+03;
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RESULT 2097
ADG38408/c
ID ADG3840
XX ADG3840
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BCRP; cancer cell;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PCR; primer;
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RESULT 2093
ADC21062/c
ID ADC2106
XX Boynchet
XX MO20030
XX WO20030
XX 18-SEP-
XX WO20030
XX 10-MAR-
XX (TEXA)
PF 04-MAR-
XX (TEXA)
PF Cai L,
XX WPI; 20
XX Predict
PT Characi
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                                                                                                                                                                                                                                The present invention describes a method for predicting marbling in CC bovine comprising identifying a haplotype that is predictive of marbling, CC where the haplotype comprises a single nucleotide polymorphism (SNP) at CC nucleotide 244 and/or 575 of the bovine somatostatin (SST) gene. Also CC described is a method for predicting a trait in bovine comprising (CC identifying a haplotype that is predictive of the trait, where the CC haplotype comprises a SNP at nucleotide 244 and/or 575 of the bovine SST CC gene, and the trait is selected from yearling weight, actual fat CC thickness over 10th and 11th rib, quality grade, connective tissue, CC flavour and juiciness. The methods can be used for identifying a SNP that is predictive of marbling is used for CC predicting marbling in bovine. Identifying a haplotype comprising an SNP CC that is predictive of a trait, is used for identifying a trait in bovine, CC e.g. yearling weight, actual fat thickness over 10th and 11th rib, CC e.g. yearling weight, actual fat thickness over 10th and 11th rib, CC is used for selecting breeding bovines to produce offspring that exhibit increased marbling. The methods are useful for determining breeding CC increased marbling. The methods are useful for optimising the management conditive. The present sequence represents a PCR primer for bovine SCT which is used in an example from the present invention The bovine SCT.
      Query Match
Best Local Similarity
Matches 15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Predicting marbling in bovine, useful for determining breeding characteristics of livestock progeny comprises identifying a haplotype that is predictive of marbling, where the haplotype comprises a single nucleotide polymorphism.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    marbling; bovine; haplotype; single nucleotide polymorphism; SNP; somatostatin; SST; breeding; characteristic; livestock; meat; chromosome 1; PCR primer; ss.
                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 2; SEQ ID NO 15; 113pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Bos taurus.
synthetic construct.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               18-DEC-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2003-748381/70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                04-MAR-2002; 2002US-0361589P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                18-SEP-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     04-MAR-2003; 2003WO-US006537
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                                                                                                                                                                                                                is used in an example from the present invention.
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                                                                                                                                                                                    located
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                                                                                                                         BP; 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TEXAS A & M SYSTEM
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                                                                                                                         A.
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                                                                                                                                                                                       chromosome
                               93.8%;
                                                                                                                         0 C; 12 G;
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Score 14.4; DB 1
Pred. No. 1.1e+03
0; Mismatches
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                                                                                                                         3 T;
                                                                                                                                                                                       more
                                                                                                                         0 U;
                                                                                                                                                                                    specifically
                                                              DB 1;
                                                                                                                         0 Other;
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                                                              Length 20;
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RESULT 2095
ADE71376
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ADE71381/c
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                                                                                                                                                                                                Query Match
Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                 Novel protein and encoded DNA TCH149 with activity in transporting organic ion, applicable in diagnosis of and developing drugs for respiratory diseases and kidney diseases.
       Synthetic
                                                                                                                                                                                                                                      Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCH149; respiratory disease; kidney disease; asthma; nephrotropic; antiasthmatic; PCR; primer; ss.
                           antiasthmatic;
                                    TCH149; respiratory disease; kidney
                                                       TCH149
                                                                         29-JAN-2004
                                                                                            ADE71376
                                                                                                               ADE71376 standard; DNA; 20
                                                                                                                                                                                                                                                                 respiratory
sequence is
                                                                                                                                                                                                                                                                                     encoded DNA
                                                                                                                                                                                                                                                                                             The present
                                                                                                                                                                                                                                                                                                               Example 1; SEQ ID NO 11; 109pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                        Nakanishi A,
                                                                                                                                                                                                                                                                                                                                                                                                                             12-APR-2002; 2002JP-00111271.
08-MAY-2002; 2002JP-00133133.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         10-APR-2003; 2003WO-JP004555
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           23-OCT-2003.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TCH149 PCR primer R2, SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  29-JAN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADE71381;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADE71381 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                           (TAKE ) TAKEDA CHEM IND LTD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ;-
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                                                                                                                                                                              1580 GGTGATCTTGGTGGAA 1595
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                                                                                                                                                             19
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                                                       PCR
                                                                                                                                                                                                  15;
                                                                                                                                                                                                          Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CCTCCCTAATCCCTCC
                                                      primer F1, SEQ ID
                                                                                                                                                                                                                                                                invention relates to human TCH149 (ADE71371). TCH149 and are applicable in diagnosis of and developing drugs for diseases and kidney diseases e.g. asthma. The present a PCR primer, which was used in an example from the
                                                                                                                                                                                                                                      BP;
                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry
                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                         Uno Y;
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                                                                                                                                                                                                                                      P
                          primer;
                                                                                                                                                                                                         93.8%;
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                                                                                                                                                                                                                                      C; 1 G; 5
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                                                                                                               ВP
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                           88
                                                                                                                                                                                                0
                                                                                                                                                                                                                   Score 14.4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                11
                                                                                                                                                                                                          Pred.
                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                      Η
..
                                                                                                                                                                                                         No. 1
                                                                                                                                                                                                                                      0
                                    disease; asthma; nephrotropic;
                                                                                                                                                                                                                                      Ģ
                                                                                                                                                                                                           .1e+03
                                                                                                                                                                                                                    DB 1;
                                                                                                                                                                                                                                      0 Other;
                                                                                                                                                                                                                  Length 20;
                                                                                                                                                                                                  Indels
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                                                                                                                                                                                                 Gaps
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RESULT 2091
ACD25734/c
                                                                                The invention relates to a substantially purified amino acid sequence comprising at least a portion of human calcium channel alpha2delta subunit splice isoform 1, splice isoform 2 sequence or splice isoform 3, or their variants, and their encoding nucleic acids (or their complements, variants, or homologues). Also included are screening a test compound for modulating calcium channel activity, an antibody which binds to the calcium channel or its variants and producing a transgenic non-their compound for modulating calcium channel activity, an antibody which binds to the calcium channel proteins are useful for generating an channel alpha 2delta subunit relative to a corresponding wild-type antibody (which is useful for detecting the proteins or their portions). The calcium channel proteins are useful for generating an antibody (which is useful for detecting the proteins or their portions). The transgenic animal (preferably a rodent e.g. mouse) is useful for identifying a therapeutic compound for treating a transgenic animal having cancer, sepecially lung cancer (small calc carcinoma or non-small cell carcinoma), breast cancer, nasopharyngeal cancer, cervical cancer, bad and neck cancer, a neurological disease, subtinifarct dementia, any careful cancer, carefu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New substantially pure human calcium channel alpha2delta subunit splice isoform 1, 2 and 3 sequence useful in preventing, treating and diagnosing cancer, neurological disorders and cardiovascular disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   brain trauma; Alzheimer's disease; multiinfarct dementia; seizure; amyotrophic lateral sclerosis; convulsions; Huntington's disease; amnesia; cardiovascular disease; cardiac arrhythmia; angina pectoris; hypoxic damage; ischaemia; myocardial infarction; SSCP; congestive heart failure; Lambert-Eaton myasthenic syndrome;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        transgenic; cancer; lung cancer; small cell carcinoma; epilepsy; non-small cell carcinoma; breast cancer; nasopharyngeal cancer; cervical cancer; head and neck cancer; neurological disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human calcium channel alpha2delta SSCP/RT-PCR primer e79F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACD25734 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 05-APR-2002;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACD25734;
                                                                    amyotrophic lateral sclerosis, convulsions, seizures, Huntington's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Lerman MI,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               30-DEC-1998;
22-DEC-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (DUHF/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LERM/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               strand conformation polymorphism; reverse transcriptase PCR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LERMAN M I.
LATIF F.
WEI M.
DUH F.
MINNA J D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEKIDO Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               7; Page 27;
                    and amnesia, a cardiovascular disease, especially cardiac ia, angina pectoris, hypoxic damage to the cardiovascular system,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PCR; calcium channel alpha2delta;
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                 angina pectoris,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2002US-00116949
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99US-00470443.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            79pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Wei
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Z,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ВP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Minna JD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sekido Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3p21.3;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   primer;
/; stroke;
RT-PCR;
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Query Match Best Local S Matches 15

Similarity

93.8%;

Score 14.4; DB 1; Pred. No. 1.1e+03; 0; Mismatches 1;

Length 20;

Indels

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Gaps

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Other;

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RESULT 2092
ACD44777/c
ID ACD4477
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     congestive heart failure; or Lambert-Eaton myasthenic syndrome. The proteins and nucleic acids are useful in the diagnosis, prevention a treatment of the above mentioned diseases. The human gene for the ca channel is located on chromosome 3p21.3. The present sequence is an (single strand conformation polymorphism) and reverse transcriptase PCR primer used to detect and amplify polymorphic regions of the cal
                      The invention relates to antisense compounds targeted to nucleic acids encoding protein kinase A regulatory subunit RII alpha. The antisense compounds are useful for modulating the expression of protein kinase A (PKA) regulatory subunit RII alpha and for treating a disease or condition associated with expression of PKA regulatory subunit RII alpha. The compounds are also useful as research reagents and kits, or for diagnostics, therapeutics and prophylaxis, e.g. to prevent or delay infection, inflammation or tumour formation. The present sequence represents a human protein kinase A regulatory subunit RII alpha inhibitory oligonucleotide
                                                                                                                                                                                                                                         New antisense compounds, useful for modulating the expression of protein kinase A (PKA) regulatory subunit RII alpha, and for treating a disease or condition associated with expression of PKA regulatory subunit RII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACD44777 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                               Claim 15;
                                                                                                                                                                                                                                                                                                                                    Monia BP,
                                                                                                                                                                                                                                                                                                                                                                                               11-SEP-2001; 2001US-00954560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    protein kinase
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PKA regulatory subunit RII alpha inhibitory oligonucleotide ISIS102902
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nase A regulatory subunit RII alpha.
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               Human; major histocompatibility complex class II transactivator; MMC class II transactivator; antisense modulation; immunosuppressive; antimicrobial; antidiabetic; antirheumatic; antiarthritic; cytostatic; nootropic; neuroprotective; immunostimulant; autoimmune disorder; MMC class II transactivator inhibitor; infection; transplant rejection diabetes; rheumatoid arthritis; cancer; Alzheimer's disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 as FGFR-3, ACH, JTK4 and CEK2) to inhibit its expression. Antisense compounds of the invention are useful for treating diseases or conditions associated with FGFR-3 such as developmental disorders or hyperproliferative disorders, especially cancer of colorectal, bladder, bone, lung, cervical, breast or skin. They are useful as research reagents, therapeutics, prophylaxis, kits and diagnostics, and as tools in differential and/or combinatorial analyses to elucidate expression patterns of a portion of the genes expressed within cells and tissues. They are also useful in antisense therapy. The present sequence is an
                                                                                                                                                                                                      MHC class II transactivator antisense oligonucleotide
                                                                                                                                                                                                                                                        29-SEP-2003
                                                                                                                                                                                                                                                                                                                                                            ACF39618 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention relates to antisense compounds targetted to molecule encoding fibroblast growth factor (FGF) receptor as FGFR-3, ACH, JTK4 and CEK2) to inhibit its expression.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Novel compound targeted to a nucleic acid molecule encoding fibroblast growth factor receptor 3, useful for inhibiting the expression of the
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nilarity 93.8%;
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                       inhibitor; infection; transplant rejection; is; cancer; Alzheimer's disease;
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The present invention describes a compound (I) that is 8-50 nucleobases CC in length: (a) targets a nucleic acid molecule encoding major histocompatibility complex (MHC) class II transactivator, and histocompatibility complex (MHC) class II transactivator, and inhibite the expression of MHC class II cransactivator; or (b) specifically hybridises with at least an 8-CC transactivator; or (b) specifically hybridises with at least an 8-CC nucleobase portion of an active site on a nucleic acid molecule encoding MHC class II transactivator. (I) has immunosuppressive, antimicrobial, CC antidiabetic, antirheumatic, antiarthritic, cytostatic, nootropic, CC neuroprotective and immunostimulant activities, and can be used as an MHC Class II transactivator antisense oligonucleotides can be used for transactivator inhibitor. The MHC class II transactivator, e.g. autoimmune disorder or infection. The antisense oligonucleotides can be used for inhibiting the expression of MHC class II transactivator; e.g. autoimmune disorder or infection. The antisense oligonucleotides can be called for inhibiting the expression of MHC class II transactivator; e.g. autoimmune disorder or infection. The antisense oligonucleotides can be called for inhibiting the expression of MHC class II transactivator; e.g. autoimmune disorder or infection. The antisense oligonucleotides can be called for inhibiting the expression of MHC class II transactivator in cells or tissues. In particular, these diseases include transplant and continue sclerosis, or severe combined immunodeficiency disease. The
                                                                           antisense compounds are useful for diagnostics, prophylaxis, research reagents or kits. The present sequence represents a class II transactivator chimeric phosphorothioate antisense
Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New antisense oligonucleotides for modulating MHC class II transactivator gene expression, particularly useful for treating autoimmune disorders such as transplant rejection, Alzheimer's disease, or multiple sclerosis,
                                                  oligonucleotide,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example
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Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       88
                                                    from
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                                                    present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cytidine residues
                                                                                                      human MHC
                                                                                                                                        or as
                                                    invention
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                                                                                                                                                                                                                         ACC47854/c
                                                                                                                                                                                                                                           RESULT 2088
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             and/or modified nucleic acid (NA/MNA) reference material bound to a solid phase. (M) comprises digesting NA/MNA reference material using biochemical and/or chemical approaches, to obtain sequence fragments surrounding a specific recognition site, and selecting the NA/MNA sequence fragments associated with a specific recognition site. Also described: (1) fragments (I) obtained by (M); (2) nucleic acid and/or modified nucleic acid microarray (II) containing (I); (3) representation (III) of the genome or a part of the genome of an organism, comprising multiple copies of (I), or its selection, obtained by (M); and (4) NotI cloning of deleted sequences (CODE) genomic subtraction method based on the use of (I). (M) is useful for preparing nucleic acid and/or modified nucleic acid reference material bound to a solid phase. (III) is useful for discriminating between different genomes, detecting methylations, deletions, mutations and other changes within genomic material, obtained from the same individual at different points of time, or in the genomic material obtained from one individual as compared to a standard representation. The present sequence represents a PCR primer which is used
                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
Matches 15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         22-APR-2002; 2002WO-SE000788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic.
Liver stem; progenitor; pancreatic; insulin; glucose; antidiabetic; PC1; cell therapy; Southern blot; Pdx1; Hlxb9; IS1; ngn3; Nlkx2; Pax6; Pax4; NeuroD/beta2; Nkx6.1; insulin I; insulin II; glucagon; somatostatin; PP; amylase; elastase; GLUT-2; glucokinase; PC2; PC3; carboxypeptidase E;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20-APR-2001; 2001US-0284925P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WO200286163-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         chromosome 3p21.2-21.32; PCR primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention describes a method (M) for preparing nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Preparing immobilized nucleic acid reference material to generate fragments for genome analysis, comprises digesting the material to get fragments surrounding a recognition site, selecting fragments associated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Zabarovsky
                                                                                                                                11-AUG-2003
                                                                                                                                                                                                        ACC47854 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example; Page 39; 59pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (KARO-) KAROLINSKA INNOVATIONS AB.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     sapiens.
                                                                                                                                                                                                                                                                                                                                    797 CCATCTGCAATACCCT 812
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  exemplification of the present invention
                                                                                                                                                                                                                                                                                                  5 CCATCTGCAATTCCCT 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                             BP; 3 A; 8 C; 2 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                           gene amplifying antisense primer.
                                                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ernberg I,
Kashuba V,
                                                                                                                                                                                                                                                                                                                                                                                        0.3%;
                                                                                                                                                                                                        ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Li J, Protopopov
Zabarovska V;
                                                                                                                                                                                                                                                                                                                                                                         0
                                                                                                                                                                                                                                                                                                                                                                                          Score 14.4;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                          .1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                           DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Vorontsova
                                                                                                                                                                                                                                                                                                                                                                                                         Length 20
                                                                                                                                                                                                                                                                                                                                                                         .
0;
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                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                         0
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AAD55465/C
ID AAD55466
XX AAD5546
XX AAD5546
XX AAD5546
XX Human F
XX Human;
KW Human;
KW Hevelop
KW FGFR-3;
XX Homo sa
OS Synthet
XX FH Key
FT modifie
FT modifie

developmental

Human FGFR-3 07-AUG-2003 AAD55465;

antisense oligonucleotide,

ISIS #125169.

(first entry)

Synthetic.

domo sapiens

modified_base

/*tag=

_base= OTHER

Location/Qualifiers

Human; antisense; fibroblast growth factor receptor 3; prophylaxis; developmental disorder; hyperproliferative disorder; antisense ther

phosphorothicate;

therapy;

Ś

5090 18

AGCTCTGCTTCCTTGG 5105 AGGTCTGCTTCCTTGG

Conservative

0

Mismatches

0;

Gaps

0

93.8%;

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AAD55465 standard; DNA; 20 BP

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Query Match

Best Local Similarity

Matches 15; Conserva
                                                                                                                                                  The invention relates to converting a liver stem/progenitor cell to a pancreatic functional cell that produces and secretes insulin in response to glucose stimulation. The method involves transfecting the liver stem/progenitor cell with a pancreatic development gene and/or culturing the liver stem/progenitor cell in a medium comprising factors that induce differentiation into the pancreatic functional cell, where the transfected cell is converted to the pancreatic functional cell. The method is useful in converted to the pancreatic functional cells to pancreatic functional cells that may be used for treating diabetes. Sequences ACC47827-862 represent PCR primers used in a Southern blotting experiment for characterisation of expression of various genes in liver stem/progenitor cells. The genes studied were pdx1, Hixb9, Isl1, ngn3, Nlkx2, Pax6, NeuroD/beta2, Nkx6.1, Pax4, insulin I, insulin II, glucagon, somatostatin. Pn. amvlase. elastase. Glutt-2. clucokinsae. PC1. PC2. PC3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Converting liver stem/progenitor cells to a pancreatic functional cell, useful for treating diabetes, comprises transfecting liver cells with pancreatic development gene and/or culturing with pancreatic differentiation factors.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CPE; PCR; primer;
                                                                              Sequence 20 BP; 6 A; 6 C; 4 G; 4 T; 0 U; 0 Other;
                                                                                                              somatostatin, PP, amylase, elastase, GLUT-2, glucokinase, PC1, PC2, PC3 and carboxypeptidase E (CPE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 3; Page 17; 31pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2003-393531/37
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  IXION BIOTECHNOLOGY INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2001US-0337446P
                                        0.3%;
                     Score 14.4; DB 1
Pred. No. 1.1e+03
                                          DB 1;
                                        Length
                                                                                                                                                                                                                                                                                                                                                                                            in response
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RESULT 2086
ADG90501
                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      nucleotides in length targeted to a nucleic acid molecule encoding human calreticulin, and specifically hybridises with and inhibits the expression of human calreticulin. A compound of the invention has cytostatic, cardiant, virucide, osteopathic, and antiparasitic activity, and may act as a calreticulin-inhibitor, and have a use in antisense gene therapy. The antisense compound is useful for treating a disease or condition associated with calreticulin e.g. melanoma, viral warts, rubella, schistosomiasis, congenital heart block or osteoporosis. Further, it is useful as prophylaxis, research reagent and diagnostic. The present sequence is used in the exemplification of the invention. The sequence is a phosphorothioate oligonucleotide, having 2'-MOE wings and a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New antisense compound that specifically expression of human calreticulin, useful osteoporosis or schistosomiasis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             virucide; osteopathic; antiparasitic; antisense gene therapy; melanoma;
viral warts; rubella; schistosomiasis; congenital heart block;
osteoporosis.
              modified_base
                                                        Homo sapiens
                                                                                             prostate cancer; talin-related disorder;
cellular adhesion-related disorder; expression inhibition;
                                                                                                                          cardiomyocyte; platelet; prostate; androgen
                                                                                                                                         Human;
                                                                                                                                                                  Human talin phosphorothioate antisense oligonucleotide,
                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 20
                                                                                    antisense
                                                                                                                                                                                                                                                    ADG90501 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 15; SEQ ID NO 36; 110pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2002-750420/81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (ISIS-)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  30-OCT-2001; 2001WO-US048485
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Synthetic.
                                                                                                                                                                                                                                                                                                                                                   1406
                                                                                                                                                                                                                                                                                                                                                                                                                                                              gap.
                                                                                                                                                                                                                                                                                                                          16
                                                                                                                        talin; cellular adhesion; muscle strength; cardiac f
mvocvte; platelet; prostate; androgen downregulation;
                                                                                                                                                                                                                                                                                                                                                                             l Similarity
15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ÇF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ISIS PHARM INC.
BOEHRINGER INGELHEIM PHARM INC.
                                                                                                                                                                                                                                                                                                                                          CACCTTTGAGGTGAAG 1421
                                                                                                                                                                                                                                                                                                                          CACCTATGAGGTGAAG
                                                                                 therapy;
                                                                                                                                                                                                                                                                                                                                                                           0.3%;
ilarity 93.8%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                   B₽;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Rothlein
                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               relates to a novel antisense compound, which is 8-10
                                                                                                                                                                                                                                                                                                                                                                                                                                   w
1. .zu
/*tag=
                            Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                   Α
                                                                                 phosphorothicate;
                                                                                                                                                                                                                                                                                                                                                                                                                                  5 C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ø
                                                                                                                                                                                                                                                                                                                                                                                                                                   4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Kishimoto TK,
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(ე
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                                                                                                                                                                                                                                                                                                                                                                             Pred. No. 1.100; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                      Score 14.4;
                                                                                                                                                                                                                                                                                                                                                                                                                                   œ
                                                                                                                                                                                                                                                                                                                                                                                                                                   ;
                                                                                                                                                                                                                                                                                                                                                                                                                                  0
U;
                                                                                antisense oligonucleotide;
                                                                                                                                                                                                                                                                                                                                                                                           ..1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                   0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                hybridizes with and inhibits the for treating diseases e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cowsert LM;
                                                                                                                                                                                                                                                                                                                                                                                                        DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                     Length
                                                                                                                                         cardiac function;
                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                         20;
                                                                                                                                                                   SEQ ID NO:51
                                                                                                                                                                                                                                                                                                                                                                             0
                                                                                                                                                                                                                                                                                                                                                                             Gaps
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  EXBXBXBXB
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                                                                                                                                                                                                                                                                                            RESULT 2087
                                                                                                                                                                                                                                     Matches
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FT FT XXX

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Sequences ADG90460-ADG90539 represent phosphorothioate targeted to the CC human talin gene, which inhibit its expression. The antisense were designed to target different regions of human talin RNA, and were CC analysed for their effect on talin expression by quantitative real-time PCR. Talin is a cytoplasmic protein which links cytoskeletal proteins CC such as actin, myosin and vinculin to integrins, thereby linking the CC extracellular matrix to other cells. It is thought to be involved in the CC expressed in platelets, and may play a role in platelet adhesion as its cubcallular distribution differs between resting non-adhesive platelets CC and activated adhesive platelets. It could also play a major role in CC determining muscle strength and cardiac function as it has been found to participate in the transmission of contractile force to the extracellular cc matrix in cardiomyocytes, and exhibits mechanical loading-dependent cc expression at myotendinous junctions. The expression of talin is contribute to the development of prostate cancer. The oligonucleotides of the invention are useful for diagnosis, prevention and treatment of talin crelated disorders, such as those related to cellular adhesion. The CC contribute to the development of prostate cancer. The oligonucleotides of the invention are useful for diagnosis, prevention and treatment of talin crelated disorders, such as those related to cellular adhesion. The CC contribute to the development of prostate cancer. The oligonucleotides of the invention are as homen c-Ha-ras phosphorothicate antisense coligonucleotide concentration for a particular cell line.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New antisense oligonucleotides targeted to nucleic acid molecules encoding human Talin, useful for inhibiting the expression of human Talin and for treating a human having a disease or condition associated with
Genome analysis; restriction site tagged microarray; human,
                                                                     Human target NRL3-001 (3p21.2-21.32) forward PCR primer.
                                                                                                                                              26-FEB-2003
                                                                                                                                                                                                                                                                                        ABZ21606 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2002-691651/74
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     22-FEB-2001; 2001US-00791942
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2296 CCTGGGAGGCAGAAAC 2311
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
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BOEHRINGER INGELHEIM PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CCTGGGAGGCAGACAC 16
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BP; 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
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                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /nore= "This oligonucleotide has a phosphorothicate backbone and 2-'methyoxyethyl (2'-MOE) wings at the 5 and 3' ends, which are 5 nucleotides in length. Also cytosine nucleotides are 5-methylcytosines"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /mod_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A; 6 C; 7 G; 1 T; 0 U;
                                                                                                                                                                                                                                                                                        DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        93.8%;
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                                                                                                                                                                                                                                                                                        ΒP
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Pred. No. 1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       <u>,</u>
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RESULT 2083
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local S
Matches 15
The invention relates to an antisense compound targeted to a nucleic acid molecule encoding human checkpoint kinase 2 (CHKZ). The antisense compound specifically hybridises with and inhibits the expression of human CHK2. The antisense compounds are useful as research reagents and diagnostics, in distinguishing between functions of various members of a biological pathway, and in the treatment of a disease or disorder, which can be treated by modulating the expression of CHK2. This sequence represents a phosphorothioate oligonucleotide used in the scope of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 hyperproliferative disorder (cancer), or bone metabolism or cholesterol disorder. (I) is useful for diagnostics, therapeutics, prophylaxis and research reagent and kits. (I) is useful prophylactically prevent or delay infection, inflammation or tumour formation. The present sequence represent a mouse caspase 7 inhibiting chimeric phosphorothicate oligonucleotide having 2'.MOE wings and a deoxy gap, which is used in a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             targeted to a nucleic acid molecule encoding caspase 7, which specifically hybridises with and inhibits the expression of caspase (I) has antiinflammatory and cytostatic activities, and can be used antisense therapy and as an inhibitor of caspase 7 expression. (I) is useful for inhibiting the expression of caspase 7 in human cells or tissues, and for treating a human having a disease or condition associated with caspase 7 including inflammatory condition,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sarthy A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     17-DEC-2001; 2001WO-US048966.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO200251858-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        phosphorothicate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human CHK2 phosphorothioate oligonucleotide #3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           07-OCT-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ABK98346;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           example from the present invention
                                                                                                                                                                                                                                                                                                                                                 New antisense oligonucleotides targeted to a nucleic acid encoding checkpoint kinase 2 (CHK2), useful for treating a disease or condition associated with CHK2, or in distinguishing functions of members of a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          22-DEC-2000; 2000US-00746043
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               04-JUL-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ABK98346 standard; DNA; 20
                                                                                                                                                                                                                                                                     Example 15; Page 81; 100pp; English.
                                                                                                                                                                                                                                                                                                                               biological pathway.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (ISIS-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2002-575367/61.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    checkpoint kinase 2; CHK2; ss; antisense therapy; mouse;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABBOTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATGGTGTCCAAGCTCA 1305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATGGTGTCCATGCTCA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Cowsert LM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BP; 7 A; 5 C; 5 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BP.
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Pred.
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No. 1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 20;
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RESULT 2085 ADG34570/c

ADG34570 standard;

DNA;

EXEXEXEXE BXSXFXBXB

(first

entry)

ss; human; antisense compound; calreticulin;

cytostatic;

Phosphorothioate oligonucleotide calreticulin inhibitor SEQ ID NO:36

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RESULT 2084
ABL54719/c
ID ABL5471
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                                           Matches
                                                    Query Match
Best Local
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                                                                                                                 The invention relates to an oligonucleotide (ABL54681-ABL54761) which a sequence targeting 23S rRNA and DNA. The probes are useful for determining the identification and the presence of Lactobacillus genus Pediococcus genus microbes in a sample, especially Lactobacillus brevicactobacillus sp. ABBC74, Lactobacillus lindneri, Lactobacillus planta
                                                                                    Sequence
                                                                                                                                                                                    Claim 4; Page 14; 25pp; Japanese.
                                                                                                                                                                                                                 Base sequence for detecting Lactobacillus genus
                                                                                                                                                                                                                                        WPI; 2002-275725/32.
                                                                                                                                                                                                                                                                                                        31-JUL-2000; 2000JP-00230241
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABL54719;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ABL54719
                                                                                                         and Padiococcus
                                                                                                                                                                                                                                                                                                                                                                       Lactobacillus lindneri
                                                                                                                                                                                                                                                                                                                                                                                                                                      Lactobacillus
                                                                                                                                                                                                                                                                                                                                                                                         Lactobacillus; Pediococcus; 23S rDNA; Lactobacillus brevis;
Lactobacillus sp ABBC74; Lactobacillus lindneri; Lactobacil
Padiococcus damnosus; probe; ss.
                                                                                                                                                                                                                                                              (ASAK ) ASAHI BREWERIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Local
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                                                      Similarity
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                     CCTCCCGGCCAGCCGC 3414
                                                                                     20 BP; 2 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CGTGCTGGTAGAAGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CGTGCTGGTAGAGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BP; 3 A; 3 C; 10
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                                          Conservative
                                                                                                                                                                                                                                                                                    2000JP-00230241
                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                      238
                                                                                                         damnosus
                                                                                                                                                                                                                                                                                                                                                                                                                                     rDNA oligonucleotide probe SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             93.8%;
                                                    93.8%;
                                                                                    6 C; 9 G; 3 T;
                                                                                                                                                                                                                                                              LTD.
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                                                    Score 14.4;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               G; 4 T;
                                           Mismatches
                                                                                    0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0
U;
                                                    .1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0 Other;
                                                                                                                                                                                                                     microbes and
                                                               Length
                                                                                                                                                                                                                                                                                                                                                                                                       Lactobacillus
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                                           <u>,</u>
                                                                                                                                                                                                                     Pediococcus
                                                                                                                                                                                                                                                                                                                                                                                                       plantarum;
                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                               genus o
                                                                                                                     plantarum
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RESULT 2081
ABZ31636/c
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The invention relates to constructing (M1) a strain of diploid fungal cells in which both alleles of a gene are modified, comprising modifying one allele by insertion or replacement by a cassette having an expressible selectable marker and modifying other allele by creombination, of a promoter replacement fragment with a heterologous promoter, so that expression of the second allele is regulated by the promoter. (M1) is useful for constructing a strain of diploid fungal cells in which both alleles of a gene are modified. The diploid fungal cells having both alleles modified are useful for identifying a gene that is essential to the survival or growth of a fungus, a gene that contributes to the virulence and/or pathogenicity of a fungus, a gene that contributes to the resistance of a diploid fungus to an antifungal agent that inhibits the growth of a diploid fungus and for identifying a therapeutic agent for treatment of a mammalian disease. (M1) is useful for identifying a compound which modulates the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                               Constructing strains for identifying gene products as effective targets for therapeutic intervention, by inactivating in the strain one allele of a gene and placing other allele of the gene under conditional expression.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          29-DEC-2000; 2000US-0259128P.
20-FEB-2001; 2001US-00792024.
22-AUG-2001; 2001US-0314050P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Fungus; yeast; tetracyclin; promoter; GRACE strain; biosynthesis; signal transduction; DNA replication; cell division; growth; proliferation; Candida albicans; fungicide; antifungal; PCR; primeroliferation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                invention are useful for treating antioxidant enzyme malfunction disorders such as heart disease, arthritis, neurodegenerative disease, and tumour. They are also used in antisense therapy. The present seque is human GPx specific oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                bind to an antioxidant enzyme start codon. Antioxidant enzymes of invention include manganese superoxide dismutase (MnSOD), catalai and glutathione peroxidase (GPx) etc. Antisense compounds of the
                                                                                                                                                                                                                                                                                 Claim 36; SEQ
                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2002-566694/60
                                                                                                                                                                                                                                                                                                                                                                                                                                                          (ELIT-) ELITRA PHARM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             26-DEC-2001; 2001WO-US049486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO200253728-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Candida albicans
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Candida albicans
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ABZ31636 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         invention relates to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3708
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                                                                                                                                                                                                                                                                                                                                                                                                                      Jiang B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                               ID NO 5855; 167pp + Sequence Listing; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GRACE strain PCR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                          INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                      Boone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    an antisense oligonucleotide that specifically
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9 G; 2 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                      Bussey H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    primer SEQ ID NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1.1e+03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                        Ohlsen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 20;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PCR; primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    present sequence
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RESULT 2082
ABN80950/c
ID ABN8095
XX
AC ABN8095
XX
AC ABN8095
XX
Caspase
KW Caspase
KW Antisen
KW hyperpr
KW cholest
XX
FT modifie
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    activity of a gene product, preferably enzymatic activity, carbon compound catabolism, blosynthetic, transporter, transcriptional, translational, signal transduction, DNA replication and cell division activity. The method is useful for identifying a compound having the ability to inhibit growth or proliferation of C. albicans cells and for treating infection by C. albicans. The present sequence is that of a PCR primer used in the method of the invention. Note: The sequence data for this patent is not represented in the printed specification but is based on the patent of the fivence of the properties.
                                                           Novel antisense compounds targeted for modulating gene expression and expression of caspase 7 in humans.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               antisense therapy; caspase 7 inhibitor; inflammatory condition; hyperproliferative disorder; cancer; bone metabolism; infection; cholesterol disorder; inflammation; tumour; phosphorothicate; ss
                                                                                                                          WPI; 2002-404806/43
                                                                                                                                                                                                                      11-SEP-2000; 2000US-00659860
                                                                                                                                                                                                                                                                                   21-MAR-2002.
                                                                                                                                                                                                                                                                                                                  WO200222640-A1.
                                                                                                                                                                                                                                                                                                                                                                                            modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Caspase 7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ABN80950;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ABN80950 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            on sequence information supplied to Derwent by the European Patent Office
                                                                                                                                                                                                                                                     10-SEP-2001; 2001WO-US028232
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mouse caspase 7 phosphorothioate oligonucleotide SEQ ID NO:128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15-JUL-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3774 TCATCCTCTGCCGAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 Similarity
15; Conserv
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                                                                                                                                                         Watt AT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              antisense modulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                         PHARM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5 A; 4 C; 8 G; 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                           /note=
1. .5
                                                                                                                                                                                                                                                                                                                                                                                           /mod_base= OTHER
/note= "2'-methoxyethyl
16. 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                 note=
                                                                                                                                                                                                                                                                                                                                                                              *tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                           *tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.3%;
                                                                                                                                                                                                                                                                                                                                               _base= OTHER
e= "2'-methoxyethyl
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        "Phosphorothicate linkages"
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Pred. No. 1.1e
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                antiinflammatory;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              T; 0 U;
                                                                             to nucleic acids encoding can
treating diseases associated
                                                                                                                                                                                                                                                                                                                                                 (2'-MOE) wing
                                                                                                                                                                                                                                                                                                                                                                                                           (2'-MOE) wing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 .1e+03
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cytostatic;
                                                                             caspase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0,
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The present invention describes a compound (I)

8-50 nucleobases

in length

3; Page 88; 138pp; English.

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 RESULT 2079
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Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to antisense compounds, compositions and methods for modulating the expression of calreticulin. The compositions comprise antisense compounds, particularly antisense oligonucleotides, targetted to nucleic acids encoding calreticulin. The antisense compound is useful for inhibiting the expression of calreticulin in human cells or tissues. It is also useful for treating a human having a disease or condition associated with calreticulin, e.g., hyperproliferative disorder e.g. cancer, autoimmune disease, viral infection or cardiovascular disease, by inhibiting expression of calreticulin. It is useful for diagnostics, therapeutics, prophylaxis and as research reagents and kits. It is also used in antisense therapy. The present sequence is an antisense compound targetted to human calreticulin. This sequence is used to study the antisense inhibition of calreticulin expression-phosphorothioate 2'-MOE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      30-OCT-2001; 2001WO-US049045
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            gapmer oligonucleotides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 3; Page 82; 109pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Novel antisense compound targeted to nucleic acid encoding calreticulin, useful for treating a human having disease or condition associated with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        30-OCT-2000; 2000US-00702327
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO200236743-A2
17-JUN-2000; 2000US-0212308P.
15-JUN-2001; 2001US-00212308.
                                                                                                                                                 Mycobacterium
                                                                                                                                                                                                             Nucleic acid accessible hybridisation site; detection; hybridisation;
                                                                                                                                                                                                                                         Mycobacterium tuberculosis katG gene PCR primer SEQ ID NO:8.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     calreticulin e.g. cancer, viral infection, autoimmune disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2002-479759/51.
                                           15-JUN-2001; 2001WO-US019401
                                                                                                       WO200198537-A2
                                                                                                                                     Synthetic.
                                                                                                                                                                                                characterisation;
                                                                                                                                                                                                                                                                        26-APR-2002
                                                                                                                                                                                                                                                                                                                                  ABL46041 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (ISIS-) ISIS PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                               1406 CACCTTTGAGGTGAAG
                                                                                                                                                                                                                                                                                                                                                                                                             16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
                                                                                                                                                                                                                                                                                                                                                                                                            CACCTATGAGGTGAAG 1
                                                                                                                                                                               probe; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP; 3 A; 5 C; 4 G; 8 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                        (first
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                                                                                                                                                   tuberculosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /mod_base= m5c
                                                                                                                                                                                               identification; nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               93.8%;
                                                                                                                                                                                                                                                                                                                                  DNA;
                                                                                                                                                                                                                                                                        entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         English.
                                                                                                                                                                                                                                                                                                                                                                                                                                        1421
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Pred. No. 1.1e
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 1; Length 20;
                                                                                                                                                                                             structure; diagnosis;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0
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Matches 15
                                                                                                                                                     secondary structure. The method comprises amplifying a target nucleic acid having at least one accessible and one inaccessible site. Primers that form an extension product are identified as the oligonucleotides which can interact with the folded target nucleic acid. Oligonucleotides from the present invention can be used in novel detection methods for clinical diagnostic purposes, including the detection and identification of pathogenic organisms (e.g. HTV). The method allows the ability to rapidly analyse nucleic acid structures. ABL46034 to ABL46367 represent sequences used in the exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                         Identifying oligonucleotides hybridizing to nucleic acids containing secondary structure, useful in clinical diagnosis, comprises identifying primers that interact with the target to form an extension product under
                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                         amplification conditions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Lyamichev V,
                                                                                                                                                                                                                                                                                                                            The present invention describes a method for identifying oligonucleotides with desired hybridisation properties to nucleic acid targets containing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (THIR-) THIRD WAVE TECHNOLOGIES INC
3342 GACCAGCCGCCCAAGG 3357
                                              15;
                                                                  Similarity
                                                                                                                      20 BP; 5 A; 6 C; 7 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                   Page
                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Allawi H,
                                                                0.3%;
                                                                                                                                                                                                                                                                                                                                                                                     409pp;
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                                              <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                     English.
                                                                Score 14.4; DB 1;
Pred. No. 1.1e+03;
                                                Mismatches
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                                                              1.1e+03;
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                                                                                   Length 20
                                                Indels
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GACCAGCGGCCCAAGG 17
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RESULT 2080
AAD39685
ID AAD3968
XX AAD3968
X GPx; heart disease; arthritis; tumour; therapy; ss. Human GPx specific oligonucleotide #1. AAD39685; AAD39685 standard; 22-OCT-2002 (first entry) DNA; 20

Antisense; human; antioxidant enzyme; manganese superoxide dismutase; MnSOD; catalase; glutathione peroxidase; neurodegenerative disease; CAT;

Homo sapiens.

WO200240498-A2

23-MAY-2002

14-NOV-2001; 2001WO-US044241

14-NOV-2000; 2000US-0248328P

(IOWA) UNIV IOWA RES

Oberley LW, Weydert CJ, Smith BB

FOUND

2002-500199/53.

New oligonucleotides, useful for treating antioxidant enzyme malfunction disorder, comprises antisense nucleic acid sequence that specifically isorder, comprises a inds to antioxidant enzyme start codon

Disclosure; Page 4; 36pp; English

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ABS74336/c
The invention relates to a purified nucleic acid sequence (referred as CACNA2D2 gene which encodes human calcium channel alpha2delta-2 subunit protein) comprising a fully defined alpha2delta splice isoform 1, 2 or 3 nucleic acid sequence, or its complement and the encoded proteins. Also include are: (1) a method of producing a calcium channel protein which involves introducing a recombinant expression vector comprising the CACNA2D2 nucleic acids and encoding the calcium channel protein, into a cultured host cell under conditions such that the host cell expresses the amino acid sequences; and (2) a method for co-expressing calcium channel proteins, comprising carrying out the method of (1), but with one or more than one expression vector comprising one or more nucleic acid sequences encoding the splice variants. CACNA2D2 nucleic acid is useful for producing a calcium channel protein. The recombinantly expressed collypeptide is useful for treating patients with Lambert-Baton myasthenic syndrome (LEMS) (an autoimmune disease) and for identifying compounds useful for treating other diseases associated with abnormal calcium channel protein activity (e.g. epilepsy, migraine, episodic ataxia,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity
Matches 15; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; ss; primer; calcium channel alpha2delta; splice isoform; CACNA2D2; gene therapy; Lambert-Eaton myasthenic syndrome; LEMS; PCR; RT-PCR; autoimmune disease; epilepsy; migraine; episodic ataxia; cancer; stroke; brain trauma; Alzheimer's disease; multiinfarct dementia; convulsion; Korsa-koff's disease; amyotrophic lateral sclerosis; seizure; Huntington's disease; amnesia; cardiac arrhythmia; angina pectoris; hypoxia; ischaemia; myocardial infarction; congestive heart failure; muscular dystrophy; hypertansion; chromosome 3p21.3; lung cancer; breast cancer; preneoplastic lesion; hyperplasia; dysplasia; carcinoma; SSCP; single strand change polymorphism; reverse transcriptase PCR.
                                                                                                                                                                                                                                                                                                                                                                                                                    Novel purified nucleic acid sequence encoding human calcium channel alpha2delta subunit protein, useful for detecting, preventing and treating cancer, stroke, brain trauma, Huntington's disease, myocardial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                 Example 7; Col 49; 77pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2002-730574/79.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (USSH ) US DEPT HEALTH & HUMAN SERVICES.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              22-DEC-1999;
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Pred. No. 1.1e+03;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Minna JD,
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RESULT 2078
AAD39502/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; calreticulin; antisense compound; hyperproliferative disorder; cancer; autoimmune disease; viral infection; cardiovascular disease; antisense therapy; cytostatic; immunosuppressive; virucide; antisense; phosphorothioate backbone; ss.
                                                                                          modified_base
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                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens
Synthetic.
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           modified_base
                                                 modified_base
                                                                                                                                                                                                                                                                                          modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human calreticulin antisense oligonucleotide, ISIS 109295.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    04-OCT-2002 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BP; 6 A; 5 C; 5 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                brain trauma, Alzheimer's disease, multiinfarct dementia
                                                                                                                                                                                                                                                                                                                                                               Location/Qualifiers
                        /mod
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/mod_ba
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                                                                                                                                                                 mod
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                                                                                                           "2'methoxyethyl nucleotides"
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Pred. No. 1
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WPI; 2002-470102/50.

#XFFX#X55555555555555555555555555555

Example 15; New antisense preventing or

Col 41; 46pp; English.

compound useful for inhibiting expression of Talin and delaying infection, inflammation or tumor formation.

for

The present invention describes an antisense compound (1), 16 to 30 bases (1) in length targeted to specific base regions of a nucleic acid encoding (2) human Talin. Also described: (a) an antisense compound up to 30 bases in (2) length which inhibits the expression of human Talin; (b) a composition (II) comprising (I) or (a); and (c) inhibiting the expression of human C Talin in human cells or tissues comprising contacting the cells or tissues in vitro with (I) or (a). (I) has antimicrobial, antihilammatory and cytostatic activities, and can be used in antisense gene therapy and (2 as a Talin expression inhibitor. (I) can be used: to inhibit the expression of human Talin in human cells or tissues; to prevent or delay infection, inflammation or tunour formation; and in diagnostics, continued the prophylaxis, and in research reagents and kits. The present configuration expressions and human Talin antisense chimeric phosphorothicate (2) information and in research reagents and kits. The present configuration antisense chimeric phosphorothicate (2) information and in research reagents and kits. The present configuration and in antisense chimeric phosphorothicate (2) information and in antisense chimeric phosphorothicate (3) in the 5' and 3' ends and a 10 nucleotide decoxy gap in the middle, which is used in an example from the present invention

Sequence 20

BP; 6 A; 6 C; 7 G; 1 T; 0 U; 0 Other;

DB 1;

Length 20;

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RESULT 2075
ABL54464/c
ID ABL5446
XX ABL546
XX ABL546
XX ABL5446
XX ABL546
XX ABL5446
XX A
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Best Local S
Matches 15
Guanosine triphosphate binding protein coupled receptor protein BG37, useful for screening potential signal transduction regulators having pharmaceutical use.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GPCR protein BG37 related primer #1.
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15-FEB-2001; 2001JP-00038619.
16-MAR-2001; 2001JP-00077000.
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Pred. No. 1.1e+03;
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ABSS8394
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AC ABSS839
XC ABSS839
XC ABSS839
XC ABSS839
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AC ABSS839
XX
AC
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Best Local S
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The present invention relates to a new antisense compound 8-30 nucleobases in length targeted to the start codon, coding region, stop codon or 3'-untranslated region of a nucleic acid molecule encoding human checkpoint kinase 2 (CHK2). The antisense compound specifically hybridises with and inhibits the expression of human CHK2. The antisense compounds are useful for modulating the expression of CHK2 and for treating diseases or conditions associated with expression of CHK2. The antisense compounds are also useful as research reagents and diagnostics, and in distinguishing between functions of various members of a biological pathway. The present nucleic acid sequence represents a chimeric phosphorothicate oligonucleotide that was used in the methods of the invention for inhibition of CHK2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This invention relates to DNA encoding a guanosine triphosphate binding protein coupled receptor (GPCR) protein (BG37). The GPCR BG37 protein is antirheumatic, antiarthritic, antiulcer, antiinflammatory, antiasthmatic, antiallergic, immunosuppressive and cardiant in its action. The protein is used in the prevention, treatment and diagnosis of diseases associated with GPCR signal transduction, such as rheumatoid arthritis, stomach ulcer, inflammatory bowel disease, ischeamic heart disease, cardiac arrhythmia, hypertension, hypotension, obesity, asthma, allergies, pain and autoimmune diseases. The present sequence represents a primer related
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New antisense oligonucleotides targeted to a nucleic acid encoding checkpoint kinase 2 (CHK2), useful for treating a disease or condition associated with CHK2, or in diagnostic and research applications.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 20 BP; 4 A; 6 C; 6 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 3; Page 80; 101pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              17-DEC-2001; 2001WO-US048967.
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Pred. No. 1.
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for modulating the expression of BCAS1 (breast cancer amplified sequence CC 1, also known as AIBC1 for amplified in breast cancer amplified sequence CC invention are useful for treating an animal having a disease or condition associated with BCAS1, such as hyperproliferative disorders including CC breast or prostate cancer. These compounds are also used as research CC reagents and diagnostice; to distinguish between functions of various CC disorder, which can be treated by modulating the expression of BCAS1; as CC prophylaxis, e.g. to proven or delay infection, inflammation or tumour CC formation; and as probes or primers. These antisense compounds are used in antisense therapy. The present sequence is an antisense compound con the exemplification of the invention by the exemption or tumour the exemplification of the invention of the sequence is used in the exemplification of the invention
X P P P P X P X P X P X P X P X X P 
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ABK99823
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Antisense gene therapy; RAIDD; death domain; caspase recruitment domain; CARD; hyperproliferative disorder; cancer; growth disorder; mouse; metabolic disorder; infection; inflammation; tumour formation; RIP associated ICH-1/CED-3-homologous protein with death domain; receptor interacting protein; antisense oligonucleotide; ss.
                                                      Novel antisense compound that hybridizes and inhibits nucleic encoding RAIDD which is an adaptor molecule containing both de and caspase recruitment domains, for treating hyperproliferation
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                                                                                                                                                                                                                                                                                                                                                                    01-NOV-2000; 2000US-00705267
                                                                                                                                                                                                                                                                                                                                                                                                                                 29-OCT-2001; 2001WO-US050914
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                                                                                                                                                                                                                                                Freier
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                                                                                                                                                                                                                                                SM,
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                                                                                                                                                                                                                                                Watt
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Pred. No. 1.
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                                                      olecule containing both death treating hyperproliferative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1.1e+03
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RESULT 2074
ABN89238
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                            Human; Talin; antimicrobial; antiinflammatory; cytostatic; antisense gene therapy; infection; inflammation; Talin inh antisense oligonucleotide; phosphorothioate; ss.
             Bennett CF,
                                                                   30-OCT-2000;
                                                                                              30-OCT-2000;
                                                                                                                           16-APR-2002.
                                                                                                                                                                                                                                                                               modified_base
                                                                                                                                                                                                                                                                                                                                       modified_base
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                                       (ISIS-)
                                                                                                                                                      US6372492-B1
                                                                                                                                                                                                                        modified_base
                                                                                                                                                                                                                                                                                                                                                       Key
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ABN89238;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ABN89238 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   antisense oligonucleotide used to control expression of the RAIDD protein
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                                         ISIS PHARM INC
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             Cowsert LM;
                                                                                               2000US-00702251
                                                                   2000US-00702251
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                    /*tag= a
/mod_base= OTHER
/note= "2'-methoxyethyl (
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                                                                                                                                                                                                                                                                                                                                                       Location/Qualifiers
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                                                                                                                                                                               base= OTHER
e= "2'-methoxyethyl (2'-MOE)
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                                                                                                                                                                                                                                                                                                "phosphorothicate backbone"
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Pred. No. 1
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                                                                                                                                                                                                                                        (2'-MOE)
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                                                                                                                                                                                                                                                                                                                                                                                                                              inhibitor; tumour;
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RESULT 2071
ABL52451/c
ID ABL52451;
XX
AC ABL52451;
XX
DE Human FLIP-c chimeri
XX
FIT-c; caspase 8 do
XX
FIT-c; caspase 8 do
XX
FIT-diffed_base 1...
XX
OS Homo sapiens.
OS Synthetic.
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PH Key Loca
FT /*to
XX
PT modified_base 1...
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Best Local S
Matches 16
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     The present invention describes a compound (I) 8-50 nucleobases in length targeted to a nucleic acid molecule (II) encoding a natural dominant negative regulator of caspase 8, FLIP-c, where (I) specifically hybridises with and inhibits expression of the protein, or specifically hybridises with at least an 8-nucleobase portion of an active site on (II). (I) has antiinflammatory and anti-tumour activities. (I) is an inhibitor of FLIP-c expression, a modulator of apoptosis and can be used in antisense gene therapy. (I) is useful for inhibiting the expression of FLIP-c in cells or tissues, and for treating an animal having a disease or condition associated with FLIP-c. (I) is also useful for modulating apoptosis in a cell, where a caspase such as caspase 8, caspase 3 or caspase 7 is activated, and the FLIP-c is the long form of FLIP-c. (I) is
                                                                                                                                                                                                                                                                                                                                                                                                                                  encoding a macu-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            anti-tumour; FLIP-c inhibitor; apoptosis; antisense gene therapy; phosphorothioate; antisense modulation; infection; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FLIP-c; caspase 8 dominant anti-tumour; FLIP-c inhibit
                                                                                                                                                                                                                                                                                                                                                                        Example 16; Page 102; 154pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      antisense compound that hybridizes and inhibits nucleic aciding a natural dominant negative regulator of caspase 8, FLIP-1 for preventing or delaying infection, inflammation or tumor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ᆫ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        chimeric phosphorothioate oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
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2'-methoxyethyl (2'-MOE) wings"
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/mod_base= OTHER
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Pred. No. 1.1e+03
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Matches 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human BCAS1 antisense oligonucleotide,
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                                                                                                                                     New DNAs of the human diacylglycerol kinase, useful for modulating the levels of diacylglycerol kinase in cells to catalyze the conversion of diacylglycerol to phosphatidic acid, therefore increasing phosphatidic
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22-APR-1997;
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Disclosure;

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17-18; 74pp; English

patent discloses novel human diacylglycerol kinase (DGK) isoforms

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              The invention relates to corneodesmosin protein (I) and nucleic acid (II) cencoding the corneodesmosin gene, where the gene comprises a base substitution, deletion or insertion at one or more positions. (I) and (II) are useful for screening for agents for use in prognosis, diagnosis and treatment of individuals having or being susceptible to corneodesmosin-mediated disease, by monitoring the reaction between the molecules and the agents. The nucleotide and amino acid polymorphisms are useful for diagnosing or determining susceptible to corneodesmosin-mediated disease, which facilitates subsequent treatment of the disease for e.g. inflammatory diseases, in particular psoriasis. Fragments of (I) are useful in diagnostic, prognostic or therapeutic methods and as creening tools for e.g. in drug screening. (II) is useful as probes or primers for detecting an allele of the polymorphism or in the regulation of corneodesmosin gene. Antibodies which binds to (I) are useful for susceptible to consider the polymorphism or in the regulation of corneodesmosin gene. Antibodies which binds to (I) are useful for susceptible to consider the polymorphism or in the regulation of corneodesmosin gene. Antibodies which binds to (I) are useful for susceptible to consider the polymorphism or in the regulation of corneodesmosin gene. Antibodies which binds to (I) are useful for susceptible to consider the polymorphism or in the resulting the antigen. (II) is
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glycerol (DAG) and for increasing intracellular levels of phosphatidic
acid in cells. The present DNA sequence is the exon/intron junction
sequence of human diacylglycerol kinase (DGK) zeta gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Corneodesmosin protein and polynucleotide encoding it, having one polymorphisms useful in treating, diagnosing or determining susceptibility to corneodesmosin-mediated diseases, for e.g. infla
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              diacylglycerol kinase zeta-2 and their corresponding cDNAs. Human diacylglycerol kinase DNA is useful for coding human diacylglycerol kinase, which is useful for catalysing the conversion of diacylglycerol kinase, which is useful for catalysing the conversion of diacylglycerol kinase and the phosphatidic acid. In particular, the human diacylglycerol kinase and the phosphatidic acid. In particular, the human diacylglycerol kinase and the phosphatidic acid. In particular, the human diacylglycerol kinase and the phosphatidic acid. In particular, the human diacylglycerol kinase and the phosphatidic acid. In particular, the human diacylglycerol kinase and the phosphatidic acid.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; single nucleotide polymorphism; SNP; PCR primer; antiinflammatory; antipsoriatic; corneodesmosin; inflammatory disease; psoriasis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; Page 25;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   diseases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Olaveson
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Corneodesmosin PCR primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               18-DEC-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAS43495;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               23-FEB-2001; 2001WO-GB000795
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (OXAG-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3356 GGACTCCCCGCTGGGG 3371
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a model to investigate the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BP; 3 A; 9 C; 7 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Lench N,
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                                                                                                                                                                                                                                                                                                                                                                                                               60pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Allen M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20
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Pred. No. 1.1e+03
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    role
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length
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population not having stem cells, in sample comprising mammalian

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 RESULT 2067
AAF75040/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CC a population with epidermal stem cells from a population of cells without CC epidermal stem cells from the epidermal stem cells from the proparation of cells without CC of epidermal stem cells from the epidermal stem cell population. Isolated CC epidermal stem cells are useful for preparing a tissue in vitro which CC i.e. a connective tissue) so as to yield a tissue in vitro which CC i.e. a connective tissue) so as to yield a tissue. Transformed epidermal CC stem cells are also useful for expressing an open reading frame in a CC mammal which involves contacting a mammal with the cells and detecting or CC determining whether the mammal expresses the open reading frame. Isolated CC cells and transformed cells are also useful for: (1) preparing a chimeric class and transformed cells are also useful for: (1) preparing a chimeric conn-human mammal involving introduction of stem cells into a non-cc mammalian blastocyst forming a chimeric blastocyst which is then introduced into a female non-human mammal capable of gestating a chimeric considermal stem cells transduced with vascular endothelial growth factor (VEGF) may be introduced into diabetic mammals to inhibit or treat CC ischaemia. The methods provide a substantially pure preparation of stem CC capacity, tissue regeneration and long term expression of a transduced consolver gene therapy as these cells have low immunogenicity. This sequence CC represents PCR primer #3 required for the detection of Enhanced green CC in the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
Matches 15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention describes a new method of preparing isolated mammalian epidermal stem cells from e.g. human, murine or primate sources by separating from a sample with a population of mammalian epidermal cells,
                                                                                                                                                                                                                                                                                                                                                                  08-MAY-2001
                                                                                                                                                                                                                                                                                                                                                                                                    AAF75040;
                                                                                                                                                                                                                                                                                                                                                                                                                                       AAF75040 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             epidermal
WPI; 2001-191514/19
                                                                                                     06-AUG-1999;
                                                                                                                                       01-AUG-2000; 2000WO-US040519
                                                                                                                                                                        15-FEB-2001.
                                                                                                                                                                                                            WO200110884-A1
                                                                                                                                                                                                                                           Homo sapiens
                                                                                                                                                                                                                                                                             neuropsychiatric; ss.
                                                                                                                                                                                                                                                                                             5-hydroxy tryptamine receptor 1A; HTR1A; polymorphism;
                                                                                                                                                                                                                                                                                                                                 Primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3170 CGACCCCATGAAGCAG
                                                                                                                                                                                                                                                                                                                                 #12.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 CGACCACATGAAGCAG 16
                                                                    GENAISSANCE PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20
                                Kliem SE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP; 7 A;
                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                     99US-0147711P
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                                Nandabalan K,
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                                                                                                                                                                                                                                                                                                                                                                                                                                       ВP
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Pred. No. 1.
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                                  Stephens JC;
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                                                                                                                                                                                                                                                                                               Tourette's;
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RESULT 2068
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention relates to 5-hydroxy tryptamine receptor 1A (HTR1A) gene. HTR1A-encoding polynucleotides containing one or more of the novel polymorphic sites are useful in studying the expression and biological function of HTR1A, as well as in developing drugs targeting this protein. In addition, information on the combinations of polymorphisms in the HTR1A gene may have diagnostic and forensic applications. A polymorphic variant of HTR1A is useful in studying the effect of the variation on the biological activity of HTR1A as well as studying the binding affinity of candidate drugs targeting HTR1A for the treatment of neuropsychiatric diseases and Tourette's syndrome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 20 BP; 5 A; 5 C; 8 G; 2 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New 5-hydroxy tryptamine receptor 1A gene variants expression and biological function of the gene and
                                                                                                                             22-APR-1996;
22-APR-1997;
                                                                                                                                                                                                                                                                                                                                                                                     diacylglycerol kinase
                                                                                                                                                                                                                                                                                                                                                                                       Human; catalyst; diacylglycerol;
diacylglycerol kinase zeta; DGK;
                                                                                                                                                                                                                                                                                                                                                                                                                          Human diacylglycerol kinase-zeta exon 16/intron 16 junction sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                  31-JUL-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         targeting 5-hydroxy tryptamine receptor 1A protein
                                                                                 Prescott SM,
                                                                                                                                                                   25-AUG-1999;
                                                                                                                                                                                           24-APR-2001.
                                                                                                                                                                                                                  US6221658-B1
                                                                                                                                                                                                                                                                                                                                                                Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAD05953;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAD05953 standard;
                                                                                                     (UTAH ) UNIV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3299 GCAGACCTTGTCCCCT 3314
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Similarity 93.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GCAGACCTGGTCCCCT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                        UTAH RES FOUND
                                                                               Bunting
                                                                                                                               96US-0016210P
97US-00841483
                                                                                                                                                                   9905-00382911
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/*tag= b
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                                                                                                                                                                                                                                                                                                     /*tag= a
/number= 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DNA;
                                                                               Tang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 English.
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Pred. No. 1
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                                                                                                                                                                                                                                                                                                                                                                                        DAG; phosphatidic ds.
                                                                                Topham
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                   acid;
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developing
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New DNAs of the human diacylglycerol kinase, useful for modulating the levels of diacylglycerol kinase in cells to catalyze the conversion of diacylglycerol to phosphatidic acid, therefore increasing phosphatidic acid levels.

conversion of phosphatidic

WPI; 2001-327248/34.

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AAF89865/c
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention relates to a transgenic organism comprising a Plderived artificial chromosome (PAC) vector, which in turn comprises a pituitary adenylate cyclase-activating polypeptide (PACAP) receptor (PACR) gene. The present sequence is a PCR primer for human PACAP type 1 receptor (PAC 1R). PACAP is a neuropeptide which is widely expressed in the brain, and in various peripheral organs. PAC 1R is selective for PACAP and is expressed at high levels in the brain. PAC IR is useful for preparing a medicament in the treatment and/or modulation of disturbances in stroke and other cerebrovascular diseases, cardiovascular diseases, leishmaniasis, immunosuppressive disorders, nociception (reaction to pain sensation) and learning and memory functions
                                                                                                                                                                                                      KLIP-1; lymphoid pro
autoimmune disease;
                                                                                          WO200134653-A2
                                                                                                                                              Homo sapiens.
                                                                                                                                                                                                                                                                                    PCR primer used to amplify human KLIP-1 cDNA fragment.
                                                                                                                                                                                                                                                                                                                                                  23-JUL-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAF89865 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New transgenic organism, useful for studying regulation of human Plderived artificial chromosome (PAC) 1R gene expression, comprises a vector or pituitary adenylate cyclase-activating polypeptide recepto
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    pituitary adenylate cyclase-activating polypeptide recept PACAP type 1 receptor; PACAP type 1 receptor; PACAP, neuropeptide; cerebrovascu cardiovascular disease; leishmaniasis; immunosuppressive
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pituitary adenylate cyc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     25-APR-2000; 2000WO-GB001586
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                l Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20 BP; 6 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Harmar AJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
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                                                                                                                                                                                                                                                                                                                                               (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         42; 83pp; English.
                                                                                                                                                                                                                                progenitor cell; natural killer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  primer
                                                                                                                                                                                                   graft
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2 C; 9 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           transgenic organism; PACAP; brain; stroke;
                                                                                                                                                                                                                                                                                                                                                                                                                                                              20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  #10.
                                                                                                                                                                                                         versus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 14.4;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cyclase-activating polypeptide receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                      disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         eptide receptor; nociception; cerebrovascular disease; osuppressive disorder;
                                                                                                                                                                                                   PCR primer;
                                                                                                                                                                                                                             cell; hemopathy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PAC
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AAS14903
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present PCR primer was used to amplify a cDNA fragment encoding a KKIF-1 protein. KLIF-1 is present on the surface of lymphoid progenitor cells and natural killer (NK) cells with an apparent molecular weight of 36-38 kilo Daltons (kD). KLIF-1 is a specific marker for NK cells and lymphoid progenitors. It is used to raise specific antibodies (and fragments of its extracellular domain are used for detecting NK cells. The antibodies are used to remove KLIF-1+ cells from hematopoistic tissue intended for transplantation; to detect, quantify or isolate NK and lymphoid progenitor cells; and to treat autoimmune diseases. Detection of KLIF-1 nucleic acids is used to disease malignant and benign hemopathy. Treatment of hematopoietic cells to remove KLIF-1 positive cells reduces the risk of causing graft versus host disease after transplantation
                                                                                                                                                                                                                                                                 Enhanced green fluorescent protein; EGFP; cell therapy; gene therapy; bioengineering; vascular endothelial growth factor; VEGF; ischaemia; diabetes, chimeric mammal, blastocyst; fibroblast; connective tissue; PCR primer; tissue regeneration; reporter gene; ss.
                                                                                                                          28-MAR-2000; 2000US-0192754P
                                                                                                                                                                                  04-OCT-2001.
                                                                                                                                                     28-MAR-2001; 2001WO-US010121
                                                                                                                                                                                                              WO200172970-A2
                                                                                                                                                                                                                                                                                                                                        Enhanced
                                                                                                                                                                                                                                                                                                                                                                   19-DEC-2001
                                                                                                                                                                                                                                                                                                                                                                                                                          AAS14903 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 9; Page 15; 55pp; French.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New KLIP-1 protein, marker for natural killer and lymphoid progenitor cells, useful e.g. for generating antibody for eliminating such cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Kirszenbaum M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10-NOV-2000; 2000WO-FR003137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            12-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (COMS ) COMMISSARIAT ENERGIE ATOMIQUE
                                                                                                                                                                                                                                        ф
                                        2001-639226/73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  s, useful e.g. for generat: hematopoietic transplants
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         87
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      15;
                                                                                                VIND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                                                       green
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TTCAGAAGTGGCCACA 102
                                                                   JR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                IOWA
                                                                                                                                                                                                                                                                                                                                       fluorescent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4 A;
                                                                   Dunnwald
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Le Discorde M,
                                                                                                RES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4 C; 7 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                     protein (EGFP)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 14.4;
Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  .1e+03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 1;
                                                                                                                                                                                                                                                                                                                                       primer #3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0
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Preparing isolated mammalian epidermal stem cells useful bioengineering, involves separating stem cell population

for tissue from cell

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RESULT 2062
AAA70380/c
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Best Local S
Matches 15
  Query Match
Best Local Similarity
                                                                                                                     Bronchitis (CB), Bronchiectasis (BE), asthma and Cystic Fibrosis (CF). In addition, patients suffering from mucociliary dysfunction are susceptible to secondary becterial infections. A partial coding sequence for human placental bikunin, AAR35464, has been isolated (see AAA70385). Placental bikunin is a Kunitz-type serine protease inhibitor protein, which can stimulate the rate of mucociliary clearance of mucus and sputum in lung airways. Therefore, placental bikunin protein may be used for treating lung diseases such as CF, CB, BE, and chronic sinusitis and glue ear which are caused by retention and accumulation of mucus. The present sequence is a PCR primer used to clone the extracellular region coding sequence of human placental bikunin
                                                                                                                                                                                                                                                                                                                                                                                                         Mucociliary dysfunction is the inability of ciliated epithelium to cle mucus and sputum in lung airways. Mucociliary dysfunction is a serious complication of chronic obstructive lung diseases such as Chronic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Stimulating mucociliary clearance rate of mucus and sputum in lung airways for treating lung diseases such as cystic fibrosis and bronchitis involves administering a Kunitz-type serine protease inhibitor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Hall
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 the presence of Candida in a sample, to detect and disrupt genes, a assign functions to nucleotide sequences. Sequences AAA57968-A57981 represent motifs within the C. albicans genome into which a TCa2 retrotransposon was able to insert
                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mucociliary dysfunction; mucus; sputum; human; PCR primer; chronic obstructive lung disease; chronic bronchitis; CB; Bronchiectasis; BE; asthma; cystic fibrosis; CF; bacterial infection; placental bikunin; Kunitz-type serine protease inhibitor; chronic sinusitis; glue ear; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human placental bikunin extracellular region cDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAA70380 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; Page 20; 173pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           22-DEC-1998;
17-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO200037099-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mucociliary dysfunction is the inability
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (FARB )
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2000-452127/39
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BAYER AG
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                                                                               20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Poll CT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTGTAAGAAATCACCA 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BP; 8 A; 4 C; 4 G; 4 T; 0 U; 0 Other;
                                                                          BP; 2 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first
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99US-00441966
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Newton
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0.3%;
  93.8%;
                                                                          7 C; 6 G; 5 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ВВ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ₽P
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Pred. No. 1
Score 14.4; DB 1;
Pred. No. 1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Taylor WJA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                          0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         .1e+03;
                                                                             0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 20
                          Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PCR primer # 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               clear
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RESULT 2064
AAF60526/c
ID AAF6052
XX
AC AAF6052
XX
DT 27-APRXX

standard;

DNA;

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27-APR-2001 AAF60526; AAF60526

(first entry)

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AAC63335
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                                            Query Match
Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                         The present invention relates to a method for detecting polymorphisms in a nucleic acid sequence. The method comprises amplifying nucleic acid sequences with a first primer homologous to a miniature inverted-repeat transposable element (MITE) in combination with another primer (non)homologous to MITE, separating the amplified nucleic acid fragments, and analysing the fragments obtained in relation to reference fragments obtained from the amplification of the nucleic acid with the primer homologous to MITE. The present sequence is a primer used in the method
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Primer; polymorphism detection; MITE; miniature inverted-repeat transposabl
                                                                                          Sequence
                                                                                                                                                                                                                                   Claim 6; Page 19; 62pp; English.
                                                                                                                                                                                                                                                        Detecting polymorphisms of nucleic acid, useful for e.g. tracing pro by amplifying the nucleic acid with a homologous and a nonhomologous primer to a miniature inverted-repeat transposable element.
                                                                                                                                                                                                                                                                                                                             Bureau T,
                                                                                                                                                                                                                                                                                                                                                                                                  01-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                        30-MAR-2000; 2000WO-CA000351.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PCR primer TEM-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             06-FEB-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAC63335
                                                                                                                                                                                                                                                                                                        WPI; 2000-665015/64.
                                                                                                                                                                                                                                                                                                                                                               (DNAL-)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO200060113-A2
                                                                                                                                                                                                                                                                                                                                                    (LAND/)
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                       2420 AATCACGTTTGCCCCAACCT 2439
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15;
                                                                                                                present invention
                                                                                                                                                                                                                                                                                                                                                               UNIV MCGILL.
DNA LANDMARKS INC.
                                                                                                                                                                                                                                                                                                                                                     LANDRY B.
                                                        Similarity
                                                                                          20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          standard;
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AATTMYTTTTGCACCAACCT 20
                                                                                                                                                                                                                                                                                                                            Chang R,
                                                                                         BP; 5 A;
                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                  99US-0127460P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DNA;
                                                       0.3%;
                                                                                        5 C; 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  transposable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ВP
                                            2;
                                                                                         G; 7 T; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0;
                                            Score 14.4; D
Pred. No. 1.1e
2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                              S.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    element;
                                                        1.1e+03
                                                                                            N
                                                                     DB 1;
                                                                                            Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    88
                                                                   Length 20;
                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                              0;
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RESULT 2060
RAC60548
ID AAC6054
XX AAC6054
XX Human;
XX Human f
XX Human f
XX Human f
XX Human;
XX Homo sa
OS Synthet
XX US61241
XX 26-SEP-
XX 15-OCT-
XX (ISIS-)
PF 15-OCT-
YX (ISIS-)
PF 17-OCT-
YX (ISIS-)
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YX (ISIS-)
YX (ISIS-)
YX WPI; 20
XX WPI; 20
XX Novel a
PT 1 and
PT human f
XX Claim 3
XX Cl
                                                               The present sequence is one of a large number of antisense oligonucleotides which are targeted to nucleic acids encoding fra-1. The sequences may be oligodeoxyribonucleotides or chimeric oligonucleotides containing a central gap region consisting of ten 2'-deoxynucleotides, which is flanked on both sides by 2'-methoxyethyl (2'-MOE) wings. The oligonucleotides have a phosphorothioate backbone and the cyridine residues in the 2'-MOE wings are 5-methylcytidines. The fra-1 in the cyrides are useful for inhibiting the expression of fra-1 in human cells or tissues. They can be used for diagnostics, therapeutics, prophylaxis and as research reagents and in kits. Use of the antisense compounds may also be useful prophylactically, e.g. to prevent or delay infection, inflammation or tumour formation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             human genome, and in complex association studies and haplotyping studies which are useful in determining the genetic basis for disease states. Compositions and methods of the invention can also be useful for the identification of the targets for the development of pharmaceutical agents and diagnostic methods, as well as the characterisation of the differential efficacious responses to and side effects from pharmaceutical agents acting on a disease as well as other treatment.

N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and 3367, are not actually given a sequence in the Sequence Listing from the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Novel antisense compound 8-30 nucleobases in length targeted to human -1 and which specifically hybridizes with and inhibits the expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               15-OCT-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   15-OCT-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         fra-1; antisense oligonucleotide; phosphorothioate; cytostatic;
flammatory; 2'-methoxyethyl wing; 2'-MOE wing; infection; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 Similarity
15; Conser
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Col 41; 38pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GTCTTTGCTGTTGCTC 4988
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              useful for modulating
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Pred. No. 1.1e+03
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           es with and inhibits the expression the expression of fra-1 in cells.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0 Other;
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4 A; 4 C;

6 G; 6 T; 0 U; 0 Other;

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CC albicans which have a copy number of 40-150, preferably 50-100 copies per CC genome. In particular, the invention relates to the novel C. albicans CC Tyl/copia retrotransposon, designated TCa2, and to the integrated form of CC this retrotransposon, designated TCa2, and to the novel C. albicans CC hCG1042 and has a copy number of 50-100 copies per cell. It comprises CC identical 280 bp long terminal repeats (LTRs) and two open reading frames CC (ORFs). The first ORF encodes a gag (group antigen) protein, and the CC second ORF encodes a polyprotein (pol) consisting of an aspartate CC protease, integrase, reverse transcriptase (RT) and RNaseH. The gag and CC pol ORFs of pCal are in the same reading frame, separated only by a termination codon (TGA). Translation of the stop codon, which is mediated by the formation of a pseudoknot within the gag-pol mRNA. The CC cretrotransposons of the invention can be used as vectors for in vitro or in vivo transformation and expression. They can thus be used for the CC inmunological response in a host organism. They are therefore useful in genetic vaccine compositions and for gene therapy, particularly where the CC retrotransposons may be used to generate transgenic animals, the test of retroviral vectors is unsafe or undesirable. Additionally, the test of the content o
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      antigen, epitope of Candida in a \varepsilon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Novel retrotransposon expression vectors useful for expressing an antigen, epitope or therapeutic agent, or detecting genes or the presence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                30-OCT-1998;
30-OCT-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to novel retrotransposons from the yeast Candida
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Luyten WHML,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 19; Fig
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98US-0106342P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        sample.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              site; ds.
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Pred. No. 1
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AAZ43818
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Best Local S
Matches 15
                                                                                                                                                                                                                                                                                             24-APR-1998;
11-JUN-1998;
12-JUN-1998;
02-JUL-1998;
24-AUG-1998;
22-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAX91991-X97517 represent PCR primers used to amplify open reading frames and other nucleic acid sequences from the genome of Chlamydia pneumoniae (see AAX91990). C. pneumoniae causes reprizatory disease such as pneumonia and bronchitis and is thought to be a contributing factor in heart disease, sarcoidosis, sinusitis, purulent otitis media, erythema nodosum or pharyngitis. The polypeptides encoded by the open reading frames of the C. pneumoniae genome (see AAY34584- AAY35879) can be used in immunogenic compositions as vaccines. Vectors containing C. pneumoniae especially where the vector directs the expression of a neutralising
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human fetal brain cDNA clone vc4_1 DNA probe.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; secreted protein, treatment; nutritional activity; cytokine; cell proliferation; cell differentiation; hematopolesis regulation; tissue growth; activin; inhibin; chemotactic; chemokinetic; hemostal thrombolytic; anti-inflammatory; invasion suppressor; tumor inhibit:
                                                                   New polynucleotides encoding secreted fetal brain, adult skin, adult brain,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         04-NOV-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAZ43818;
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                                                                                                                                                                                               Valenzuela
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             23-APR-1999;
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                                                                                                                                                                                                                                                 (ALPH-) ALPHAGENE INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1620 AAGGAATATGTTTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    therapy;
                                                                                                                                                 2000-052801/04
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               pneumoniae
                                                                                                                                                                                                                                                                                             98US-0082904P.
98US-0088994P.
98US-0089278P.
98US-0091647P.
98US-0097639P.
99US-00097639.
                                                                                                                                                                                             Yuan
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Pred. No. 1.1e
0; Mismatches
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                                                                                                                                                                                               Hall
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                                                                      human
adult
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                                                                      proteins, derived fi
heart, adult thymus
                                                                                                                                                                                             Rapiejko
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                                                                                          derived from human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         hemostatic;
inhibition;
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Disclosure; Page 267; 282pp; English

cDNA libraries.

AAZ65654 to AAZ69578 represent human biallelic markers from the present invention, which contain a polymorphic base at position 24 of their nucleotide sequences. AAZ69579 to AAZ77440 represent amplification primers for the biallelic markers. The biallelic markers of the invention have a variety of uses: they can be used for high density mapping of the

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RESULT 2059
AAZ75468/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human genome; biallelic marker; high density disequity
genomic map; haplotype; phenotype; polymorphic base;
haplotyping; hybridisation; identification; character
amplification; single nucleotide polymorphism; SNP; F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human biallelic marker downstream amplification primer SEQ ID NO:9824.
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   Claim
                                                                        Movel biallelic markers map of the human genome.
                                                                                                                                                                                      WPI; 2000-013267/01.
                                                                                                                                                                                                                                                                                                                                                                                                           21-APR-1998;
23-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21-APR-1999;
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                                                                                                                                                                                                                                                                                                                                      (GEST ) GENSET.
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Page 2325; 2745pp; English.
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                                                                                                                                                                                                                                                          Blumenfeld
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           biallelic marker; high density disequilibrium map;
                                                                                                                                                                                                                                                                                                                                                                                                           98US-0109732P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     99WO-IB000822.
                                                                    genome.
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                                                                                                              used
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                                                                                                                                                                                                                                                              Chumakov
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                                                                                                          to construct a high density disequilibrium
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Pred. No. 1.
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sm; SNP; PCR prime
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RESULT 2055
AAV73135/c
ID AAV7313
XX AAV7318
XX AAV7308
CC AAV7308
CC AAV7308
CC Cancers
XX Sequenc
CC Sequenc
RESULT 2
AAV73031
ID AAV
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                                                                                                                                 Query Match
Best Local S
Matches 15
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04-AUG-1987;
21-APR-1992;
23-JUN-1994;
                                                                                                                                                                               AAV73084-V73145 are oligomers used in a method to detect a single-base mutation in a human ras oncogene. These probes comprise 12-43 nucleotides of formula 5'-B-Q-D-3', Q = 3 nucleotides complementary to the mutated codon, and B and D each = 0-20 nucleotides complementary to the ras sequences flanking the mutated codon. The probes are useful for detecting cancers associated with point mutations
        Human ras oncogene probe #6
                         09-FEB-1999
                                                         AAV73031
                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                        Disclosure; Col 19-20; 18pp; English.
                                                                                                                                                                                                                                                                                  WPI; 1999-059149/05.
                                                                                                                                                                                                                                                                                                                                                                          03-JAN-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                         Ras oncogene; probe; point mutation; detection; cancer;
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                                                                                                                                 l Similarity
15; Conserv
                                                                                                                                                                                                                                                        for detecting ras oncogene point mutations - useful sis of cancer associated with single base mutations.
                                                                                                                                                                                                                                                                                                                 RIJKSUNIV LEIDEN.
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                                                         standard;
                                                                                                              CAACATCACCCGCTCC 551
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87US-00081490.
92US-00873352.
94US-00264425.
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                                                         DNA;
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Pred. No. 1.
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Pred. No. 1
                                                                                                                                  Mismatches
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1.1e+03;
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AAX95025
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04-AUG-1987;
21-APR-1992;
23-JUN-1994;
                                                                                                        Synthetic.
Chlamydophila
Griffais R;
                                21-NOV-1997;
04-NOV-1998;
                                                         20-NOV-1998;
                                                                         03-JUN-1999.
                                                                                         WO9927105-A2
                                                                                                                                                                 PCR primer
                                                                                                                                                                                  13-SEP-1999
                                                                                                                                                                                                                                                                                                                                        with point
                                                                                                                                                                                                                                                                                                                                                                                                  Claim 5; Col 4;
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                (GEST ) GENSET
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Respiratory disease; pneumonia; bronchitis; heart disease; sarcoidosis; sinusitis; purulent otitis media; erythema nodosum; pharyngitis; vaccin neutralising epitope; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAV73026-V73071 are probes used to detect a single-base mutation in a human ras oncogene. These probes comprise 12-43 nucleotides of formula 5' -B-Q-D-3', Q=3 nucleotides complementary to the mutated codon, and B and D each = 0-20 nucleotides complementary to the ras sequences flanking and D each = 0-20 nucleotides complementary to the ras sequences flanking the mutated codon. The probes are useful for detecting cancers associated with motion of the probes are useful for detecting cancers associated with motion of the probes are useful for detecting cancers associated with motion of the probes are useful for detecting cancers associated with motion of the probes are useful for detecting cancers associated with motion of the probes are useful for detecting cancers associated with the probes are useful for detecting cancers associated with the probes are useful for detecting cancers associated with the probes are useful for detecting cancers associated with the probes are useful for detecting cancers associated with the probes are useful for detecting cancers associated with the probes are useful for detecting cancers associated with the probes are useful for detecting cancers associated with the probes are useful for detecting cancers associated with the probes are useful for detecting cancers associated with the problem of the prob
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAX95025 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 20 BP; 4 A; 10 C; 1 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ras oncogene; probe; point mutation; detection; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 1999-059149/05
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87US-00081490.
92US-00873352.
94US-00264425.
97FR-00014673
98US-0107078P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               to amplify an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DNA;
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Pred. No. 1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORF of Chlamydia pneumoniae.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5 T; 0 U; 0 Other;
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RESULT 2053

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Query Match
Best Local
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19-SEP-1997;
03-MAR-1998;
                                                                                                                                                                                           acids targets; and for analysis of nucleic acid structures. The methods can be used for the detection and characterisation of nucleic acid sequences to detect the presence of pathogenic nucleic acid sequences indicative of an infection, the presence of variants or alleles of mammalian genes associated with disease and cancers, and the identification of the source of nucleic acids found in forensic samples, as well as in paternity determinations. The methods allow simultaneous analysis of both strands (e.g. the sense and antisense strands) and are ideal for high-level multiplexing. The products produced are amenable to qualitative, quantitative and positional analysis. The methods may be performed in solution or in the solid phase (e.g. on a solid support). The methods are powerful in that they allow for analysis of longer fragments of nucleic acid than current methodologies. Sequences AAV70430-31 represent primers used for the PCR amplification of M. tuberculosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       characterisation of nucleic acid sequences and sequence changes. One method of detection and characterisation comprises: (a) providing: (i) a folded target having a DNA sequence comprising at least 1 double stranded region and at least 1 single stranded region; and (ii) at least 1 probe complementary to at least a portion of the folded target; and (b) mixing the target and probes so that the probe hybridises to form a probe folded target complex. Also provided are methods for determination of structure formation in nucleic acid targets; for analysing folded nucleic methods for determination of structure formation in nucleic acid targets; for analysing folded nucleic methods for determination of structure formation in nucleic acid targets; for analysing folded nucleic methods for determination of structure formation in nucleic acid targets; for analysing folded nucleic methods for determination of structure formation in nucleic acid targets; for analysing folded nucleic methods for determination of the folded targets and the structure formation in nucleic acid targets; for analysing folded nucleic methods for determination of the folded targets and the structure formation of the folded nucleic acid targets; for analysing folded nucleic methods for determination of the folded nucleic methods for determinati
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Detection and characterisation of nucleic acid sequences - be folded target and one or more probes to form a probe/folded complex and detecting and characterising the complexes.
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                                                                                      Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             12-NOV-1998
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Nucleic acid detection; nucleic acid characterisation; hybridisation; infection; disease; cancer; forensic; paternity; multiplexing; katG;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to methods and compositions of detection and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 1; Page 111; 279pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  05-MAY-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mycobacterium tuberculosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (THIR-) THIRD WAVE TECHNOLOGIES
  Local Similarity
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                                                                                                                                                                      gene.
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TA, Dahlbero
                                                                                      BP; 5 A; 6 C; 7 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
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97US-00934097.
98US-00034205.
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                                                                                                                                                                      used in the CFLP analysis of mutations in the
  93.8%;
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  Score 14.4;
Pred. No. 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              INC.
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1.1e+03
                                DB 1;
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                             Length 20
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3342 GACCAGCCGCCCAAGG 3357

Matches

Conservative

0

Mismatches

Indels

0

Gaps

0

Sequence

20

B₽;

A.

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.. 0 Ç; 0 hypertension and other diseases resulting

from altered glucose metabolism

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RESULT 2054
AAZ10319/c
ID AAZ1031
XX AAZ1031
XX DR PCR pri
XX Regulat
KW Growth
KW Gro
문 🤫
                                                                                      CC to growth factor plasma membrane receptors (including insulin receptors)
CC and signaling motifs in signaling proteins and modulates the activity of
Ct those molecules through tyrosine kinase activity. It is also associated
CC with vesicle trafficking and protein sorting and therefore acts as a
CC mediator of insulin action on glucose transport and metabolism. The
CC specification describes a mutated P85-alpha nucleic acid sequence which
CC comprises the mutations, relative to the present sequence: C261T, T663G,
CC A810G, and/or G1020A. The nucleic acids may be used to detect mutated
CC genes encoding the P85 alpha subunit of P13K and to identify mutations
CC which may alter the activity of the polypeptide and result in a disease
CC state. P13K is associated with pinocytic activity, cytoskeletal
CC rearrangements that accompany secretory processes, membrane ruffling,
CC actin reorganization in KB cells in response to insulin, protein sorting
CC and in membrane and vesicle trafficking. Therefore, P13K acts as a
CC mediator of insulin action on glucose transport and metabolism. Mutations
CC in the P13K gene result in decreased glucose disappearance rates,
CC consequently, mutations in P13K genes are associated with glucose
CC resistance or (impaired glucose tolerance), non-insulin dependent
CC chaetes mellitus (NIDDM), cardiovascular disease, obesity and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Regulatory p85-alpha subunit; human; phosphatidylinositol 3-kinase; P13K; growth factor plasma membrane receptor; insulin receptor; tyrosine kinase activity; vesicle trafficking; protein sorting; pinocytic activity; cytoskeletal rearrangement; membrane ruffling; actin reorganization; insulin; glucose disappearance rate;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     actin reorganization; insulin; glucose disappearance rate; glucose sensitivity; glucose resistance; glucose tolerance; non-insulin dependent diabetes mellitus; cardiovascular disease; obesity;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAZ10319;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present sequence represents a PCR primer used for PCR amplification to detect the regulatory p85-alpha subunit of human phosphatidylinositol 3-kinase (P13K) amino acid substitution mutation at codon 326. P13K bind
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  be associated with impaired glucose transport and metabolism
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Altered nucleic acids encoding P85alpha subunits of human
phosphatidylinositol 3-kinase, useful for identifying mutations that may
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 1999-539565/45.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Hansen T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       05-MAY-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          08-NOV-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PCR primer used to detect codon 326 polymorphism of P85-alpha.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          domo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (NOVO ) NOVO-NORDISK AS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pedersen OB,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    97US-00850993
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                                                                                                                                      The present sequence is a DNA primer used for PCR amplification to detect the regulatory p85-alpha subunit of phosphatidylinosicol 3 kinase (PI3K) amino acid substitution at codon 326, preferably Met326Ile, by SSCP gel analysis. A nucleic acid sequence encoding a regulatory subunit of PI3K, and comprising at least 1 mutated nucleotide, can be used as a diagnostic tool, marker or probe. The presence of a mutation in a gene encoding a regulatory subunit of PI3K can be detected by analysing a biological sample for the above nucleic acid sequence, useful to determine predisposition to impaired glucose tolerance (particularly when related to reduced glucose disappearance constant), or decreased glucose efficiency or insulin sensitivity (all of which may develop into non-insulin dependent diabetes, cardiovascular disease, obesity or
                                                                                                                                                                                                                                                                                                                                              Mutant phosphatidyl:inositol 3 kinase regulatory subunit DNA - useful to detect predisposition to impaired glucose tolerance and reduced insulin sensitivity.
                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                  Example; Page 19; 34pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 1997-558976/51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               06-MAY-1996;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PCR primer; detection; regulatory p85-alpha subunit; PI3K; obesity; mutation; phosphatidylinositol 3 kinase; hypertension; non-insulin dependent diabetes; cardiovascular disease; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          14-MAY-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAT94231 standard; DNA;
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les 15; Conserv
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                       CACACTGCTCTGCAAG 1163
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                                                                                                     BP; 4
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                                                  Conservative
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                                                             0.3%;
                                                                                                   4 C; 6
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                                                 Score 14.4; DB 1;
Pred. No. 1.1e+03;
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Pred. No. 1.1e+03;
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CC subject's genomic DNA with a restriction enzyme to produce DNA fragments or isolating the subject's polyA+ mRNA; contacting the single-stranded DNA contecting the solid support, comprising content of single-stranded DNA contecting the solid support, comprising consecutions with a labelled content of single-stranded DNA contecting DNA molecule is 5'-B-Q-D-3' in the consecution of stranded DNA contecting DNA molecule is 5'-B-Q-D-3' in the consecution of streaming the activated ras gene 5' of the mutated codon, D = 0-12 concleotides having a sequence complementary to sequence in the continuous control of streaming the resulting hybridised molecules under conditions to total of at least 9 nucleotides, and Q is complementary to the mutated codon; treating the resulting hybridised molecules under conditions of the presence of the labelled synthetic DNA molecule in the problem of the present sequence represents the synthetic DNA content second mucleotide position so that it encodes an amino acid other than content be used for the diagnosis of acute myssloid leukaemia and other than content be used for the diagnosis of acute myssloid leukaemia and other than content be used for the diagnosis of acute myssloid leukaemia and other than content be used for the diagnosis of acute myssloid leukaemia and other than content be used for the diagnosis of acute myssloid leukaemia and other than content be used for the diagnosis of acute myssloid leukaemia and other than content because the present sequence content in the first or content in the diagnosis of acute myssloid leukaemia and other than content in the diagnosis of acute myssloid leukaemia and other than content in the content i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A new method has been produced for the detection of an activated containing a mutated codon. The method involves: either cleaving subject's genomic DNA with a restriction enzyme to produce DNA fr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   23-JUL-1985;
04-AUG-1987;
21-APR-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 24; Col
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BP; 4 A; 10 C; 1 G;
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87US-00081490.
92US-00873352.
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PD 03-JUN-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               are used for prevention, treatment, diagnosis and prognosis of Vpr-related diseases, particularly lentiviral infection (specifically HIV-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New polypeptides that prevention, diagnosis
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                               interfering RNA) comprising selecting an siRNA molecule of 19-25 nucleoside bases by selecting a target gene and measuring the functionality of sequences of 19-25 nucleotides in length that are substantially complementary to a stretch of nucleotides of the target substantially complementary to a stretch of nucleotides of the target substantially complementary to a stretch of nucleotides of the target substantially complementary to a stretch of nucleotides of the target substantially complementary to a stretch of nucleotides of the target substantially complementary to a stretch of nucleotides of the target substantially complementary to a stretch of nucleotides of the target substantially complementary to a stretch of nucleotides of the target substantially complementary to a stretch of nucleotides of the target substantially complementary to a stretch of nucleotides of the target substantially complementary to a stretch of nucleotides of the target substantial su
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10-SEP-2003; 2003US-0502050P
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                                                                                                                          The invention relates to interfering RNA) comprisi
                                                                                                                                                                                                                  Example 12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Anastasia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (DHAR-)
                                                                                                                                                                                                                                                                                                          selecting a target gene
cleotide sequences that
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 siRNA; gene silencing;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HIV protein Vpr and/or modulates Vpr-related
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                                                                                                                                                                                                                                                                                                                                   siRNA by selecting an siRNA molecule of 19-25 nucleoside bases ing a target gene and measuring the functionality of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          K, Angela R,
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                                                                                                                                                                                                                  ID NO 2122; 199pp;
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                                                                                                                    a novel method for selecting ing selecting an siRNA molecu
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                                                                                                                                                                                                                                                                                                             are
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Pred. No. 1
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                                                                                                                                                                                                                  English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          William M,
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Best Local S
Matches 14
                                                                                                                                                                                                                                                                                         Probe for detecting and isolating 15 serotype(s) of chlamydia trachomatis - comprises specific nucleic acid sequences, modified backbone, nucleotide, labelled and ribonucleic acid forms, for amplifying major
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 19 BP; 5 A; 1 C; 9
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11-OCT-1993
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Isolation; amplification; major outer membrane protein gene; MOMP;
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(first entry)
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The sequence is that of a probe based on a unique nucleic acid sequence in the Chlamydia trachomatis major outer membrane protein (MOMP) gene which is present in all 15 serotypes of C. trachomatis. It corresponds to nucleotides 747-766 of the MOMP gene. It may be used for detecting and/or amplifying the MOMP gene of C. trachomatis, and can detect all 15 serotypes of C. trachomatis. Since the MOMP gene is unique for C. serotypes of C. trachomatis. Since the MOMP gene is unique for C. trachomatis, there will be no cross-hybridisation to nucleic acid from trachomatis, there will be no cross-hybridisation to nucleic acid from

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Claim 1;

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5; 19pp; English.

outer membrane protein

gene.

(RIBO-) RIBOZYME PHARM INC

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KW small i
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PR 23-MAY-
PR 114-APR-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CC further comprise sense and antisense regions, or alternatively are assembled from a sense oligonuclectide and an antisense oligonuclectide. CC Specifically, the siNAs include short interfering RNA (siRNA, double-cc stranded RNA, micro-RNA (miRNA) and short hairpin RNA (siRNA). The siNAs (can be unmodified or chemically modified, can contain contain companies, and can be chemically synthesised, expressed from a cc deoxyribonuclectides, and can be chemically synthesised, expressed from a cc complexes of siRNA; and vectors that express siNA. The siNAs are used to complexes of siRNA; and vectors that express siNA. The siNAs are used to complexe of siRNA; and vectors that express siNA. The siNAs are used to complexe of siRNA; and vectors that express siNA. The siNAs are used to complexe of siRNA; and vectors that express siNA. The siNAs are used to complexe of siRNA; and vectors that express siNA. The siNAs are used to complexe of siRNA; and vectors that express siNA; the siNAs are used to complexe of single nucleotic kidney cc conditions. They may be used for creating leukaemia and solid tumours, restenosis, polycystic kidney cc disease, bronchiolitis, glomerulonephritis and stroke. The siNAs are also useful for drug screening, diagnosis, therapeutic target identification cand validation, genetic engineering, pharmacogenomics, studying gene cc useful for drug screening diagnosis, therapeutic target identification cand validation, genetic engineering, pharmacogenomics, studying gene cc rarget ed double-stranded siNA, which is identical to the PDGFr transcript
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local
                                                                                                                                                                                                                                                                   small interfering RNA; siRNA; protein tyrosine phosphatase; PTP; PTP1B; insulin receptor protein phosphorylation; Jak2; antidiabetic; anorectic antiinflammatory; neuroprotective; cytostatic; immunosuppressive;
    23-MAY-2002; 2002US-0383249P
14-APR-2003; 2003US-0462942P
                                                                    23-MAY-2003; 2003WO-US016651
                                                                                                                                                                                                          Unidentified
                                                                                                                                                                                                                                                 antimicrobial; gene therapy; ss; siRNA
                                                                                                                                                                                                                                                                                                                                                             Protein tyrosine
                                                                                                                                                                                                                                                                                                                                                                                                         11-MAR-2004 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           receptor (PDGFr) gene by RNA interference. The siNAs may or may not comprise ribonucleotides and may be double or single stranded. They
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to short interfering nucleic acids (siNA) which downregulate expression of the human platelet-derived growth factor receptor (PDGFr) gene by RNA interference. The siNAs may or may not
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     growth factor receptor gene.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   361 AACAGGAAGTCAGTCA 376
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13; Conserv
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CC The invention relates to a novel isolated small interfering RNA (sirNA) CC polynucleotide, comprising at least one nucleotide sequence from any of the 20 fully defined sequences given in the specification. The invention CC further relates to: a pharmaceutical composition comprising a new sirNA, comprising a polynucleotide that is capable of directing transcription of an sirNA; a host cell transformed or transfected with the above recombinant nucleic acid construct; a method for interfering composition of a protein tyrosine phosphatase (PTP)1B polypeptide, or its variant; a method for identifying a component of a PTP1B signal cransduction pathway; a method for modulating an insulin receptor protein phosphorylation state in a cell; and a method for altering a Jak2-cc antidiabetic, anorectic, antinflammatory, neuroprotective, cytostatic, cimmunosuppressive, and antimicrobial. The novel siRNA polynucleotides can be used in gene therapy to treat disorders. The composition and methods cransduction, such as diabetes, obsestly, hyperglycaemia-induced composition, such as diabetes, obsestly, hyperglycaemia-induced composition. This polynucleotide sequence represents an siRNA composition of the invention of the invention of a protein tyrosine.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New small interfering polynucleotide that modulates protein tyrosine phosphatase (PTP)1B polypeptide signal transduction, useful for treating disorders associated with altered PTP1B signal transduction, e.g.
                                        phosphatase of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Lewis SP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (CEPT-) CEPTYR INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3; SEQ ID NO 404; 234pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Klinghoffer R,
                                        invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Wilson
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RESULT 2048 ACF57548/c 밁 S Matches Query Match Best Local 07-MAR-2003; 2003WO-CA000325 18-SEP-2003 Synthetic HIV; Vpr; modulator; anti-HIV; virucide; gene; ss HIV Vpr modulator peptide library DNA #3 ACF57548; ACF57548 standard; DNA; 19 08-MAR-2002; 2002US-0362384P WO2003076621-A2 22-APR-2004 Similarity Conservative (first entry 0.3%; 4. Score 14.4; DB 1; Pred. No. 1.1e+03; Mismatches Length 19; Indels 0 Gaps

(UYMO-) UNIV MONTREAL

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PACKER KWW WWW. AND CONTROL OF CO
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ADO14633/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                         20-FEB-2002;
11-MAR-2002;
06-JUN-2002;
29-AUG-2002;
05-SEP-2002;
09-SEP-2002;
15-JAN-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cytostatic; vasotropic; nephrotropic; cerebroprotective; treating leukaemia; solid tumors; restennes; polycystic kidney disease; bronchiolitis; glomerulonephritis; stroke; RNA interference; short interference; short interference; short interfering nucleic acid; siNA; short interfering RNA; short, double-stranded RNA; micro-RNA; miRNA; short hairpin RNA; shRNA; expression modulation; gene therapy; drug screening; diagnosis; therapeutic target identification; pharmacogenomics;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cluster region-v-abl Abelson murine leukaemia viral oncogene homologue 1 (BCR-ABL) gene. The siRNA of the invention demonstrates cytostatic activity and may be useful for modulating expression of the BCR-ABL gene, as well as for treating leukaemia or lymphoma and in diagnosis, drug screening, target identification and validation, genetic engineering, gene function studies and gene mapping. The current sequence is that of the human ABL1-targeted siRNA of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              and diagnosis of leukemia and lymphoma, downregulates the breakpoint cluster region-Abelson (BCR-ABL) gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADO14633 standard; RNA; 19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human PDGFr-targeted siNA upper strand SEQ ID NO:64.
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                                                                                New short interfering nucleic acid, useful e.g. idiagnosis of tumors, downregulates expression of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          05-FEB-2003; 2003WO-US003473
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     04-SEP-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WO2003072704-A2
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                                                                                                                                                                                                                             Mcswiggen
                                                                                                                                                                                                                                                                                   (RIBO-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3792 AGGGCGGCCGGCGGG 3807
                                                                                                                                                                    2003-731605/69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             function analysis; gene mapping; human; let derived growth factor receptor; PDC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           16
                                                  factor receptor gene.
                                                                                                                                                                                                                                                                                      RIBOZYME PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
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2002US-0363124P.

2002US-0386782P.

2002US-0406784P.

2002US-04087378P.

2002US-040923P.

2003US-0440129P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                          Beigelman L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ID NO 860; 197pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ВP
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                                                                                                                                                                                                                          Chowrira
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 14.4;
Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
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                                                                                for treatment for the platelet
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
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                                                                                                                                                                                       Specifically, the sinks include short interfering RNA (siRNA, double-stranded RNA, micro-RNA (miRNA) and short hairpin RNA (shRNA). The siNAs can be unmodified or chemically modified, can contain deoxyribonnucleotides, and can be chemically synthesised, expressed from a vector or enzymatically synthesised. The invention also relates to kits for the in vitro or in vivo delivery of siRNA; conjugates and/or complexes of siRNA; and vectors that express siNA. The siNAs are used to modulate expression of the PDGFr gene in cells, tissue explants or organisms (e.g., by ex vivo gene therapy), or in grafts and transplants for the treatment of a variety of conditions. They may be used for treating leukaemia and solid tumours, restenosis, polycystic kidney disease, bronchiolitis, glomerulonephritis and stroke. The siNas are also useful for drug screening, diagnosis, therapeutic target identification and validation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 further comprise sense and antisense regions, or alternatively are assembled from a sense oligonucleotide and an antisense oligonucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to short interfering nucleic acids (sIMA) which downregulate expression of the human platelet-derived growth factor receptor (PDGFr) gene by RNA interference. The siMAs may or may not comprise ribonucleotides and may be double or single stranded. They
   Sequence
                                                                                 and validation, genetic engineering, pharmacogenomics, studying gene function, and gene mapping (e.g., of single nucleotide polymorphisms). The present sequence represents the upper strand of a human PDGFr-transcritargeted double-stranded siNA, which is identical to the PDGFr transcri
19 BP;
   N
   A
   5 C; 5
   ရ;
၀
      T; 7
   U; 0 Other;
                                                                                          the PDGFr transcript
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Query Match Best Local S Matches 15 361 17 15; Similarity AACAGGAAGTCAGTCA 376 AAGAGGAAGTCAGTCA 2 Conservative 0.3%; 0 Score 14.4; Pred. No. 1. Mismatches 4; DB 1; 1.1e+03; Length 19; Indels 0, Gaps

0

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RESULT 2046 ADO14944 cytostatic; vasotropic; nephrotropic; cerebroprotective; treating leukaemia; solid tumors; restenosis; polycystic kidney disease; bronchiolitis; glomerulonephritis; stroke; RNA interference; 05-SEP-2002; 09-SEP-2002; 11-MAR-2002; 06-JUN-2002; short interfering nucleic acid; siNA; short interfering RNA; siRNA; double-stranded RNA; micro-RNA; miRNA; short hairpin RNA; shRNA; Human PDGFr-targeted siNA lower strand SEQ ID NO:375. 01-JUL-2004 ADO14944; ADO14944 standard; RNA; 19 29-AUG-2002; 20-FEB-2002; 05-FEB-2003; WO2003072704-A2 platelet gene expression modulation; gene therapy; drug screening; therapeutic target identification; pharmacogenomics; Homo sapiens function analysis; elet derived growth 2002US-0363124P. 2002US-0386782P. 2002US-0406784P. 2002US-0408378P. 2002US-0408378P. 2002US-0440129P. 2002US-0358580P 2003WO-US003473. (first entry) gene mapping; factor recepto receptor; human PDGFr; diagnosis,

Example 3;

SEQ ID NO 64; 148pp; English

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Best Local
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    20-FEB-2002;
11-MAR-2002;
06-JUN-2002;
15-AUG-2002;
29-AUG-2002;
09-SEP-2002;
09-SEP-2002;
14-JAN-2003;
15-JAN-2003;
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06-JUN-2002;
15-AUG-2002;
29-AUG-2002;
05-SEP-2002;
09-SEP-2002;
14-JAN-2003;
15-JAN-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to a novel double-stranded short interfering nucleic acid (siNA) that downregulates expression of the breakpoint cluster region-v-abl Abelson murine laukaemia viral oncogene homologue 1 (BCR-ABL) gene. The siRNA of the invention demonstrates cytostatic activity and may be useful for modulating expression of the BCR-ABL gene, as well as for treating leukaemia or lymphoma and in diagnosis, drug screening, target identification and validation, genetic engineering,
                                                                                                                                                                                                                                      20-FEB-2003;
                                                                                                                                                                                                                                                                                   28-AUG-2003
                                                                                                                                                                                                                                                                                                                                                                                                                       cytostatic;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (RIBO-) RIBOZYME PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  double-stranded interfering nucleic diagnosis of leukemia and lymphoma, ster region-Abelson (BCR-ABL) gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        e function studies and gene mapping. The current sequence human ABL1-targeted siRNA of the invention.
                                                                                                                                                                                                                                                                                                                                                                            sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                               interfering nucleic acid; siNA; breakpoint cluster Abelson murine leukaemia viral oncogene homologue 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ABL1-targeted siRNA -
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    l Similarity
10; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           standard;
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  2002US-0358580P.
2002US-036782P.
2002US-036782P.
2002US-0404039P.
2002US-0406784P.
2002US-0408378P.
2002US-040933P.
2003US-0439922P.
2003US-0440129P.
                                                                                                                                                                                                                                                                                                                                                                                                                       leukaemia; lymphoma; human; ss; siRNA; ABL1.
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2002US-0386782P.
2002US-0404039P.
2002US-0406784P.
2002US-0408378P.
2002US-0409293P.
2003US-0439922P.
2003US-0440129P.
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                                                                                                                                                                                                                                      2003WO-US005234.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first
                                                                                                                                                                                                                                                                                                                                                                                                                                             murine leukaemia viral oncogene homologue 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 14.4; DB 1;
Pred. No. 1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ID 541.
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downregulates t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 19;
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                                                                                                               Query Match
Best Local S
Matches 15
                                                                                                                              The invention relates to a novel double-stranded short intertering nucleic acid (siNA) that downregulates expression of the breakpoint cluster region-v-abl Abelson murine leukaemia viral oncogene homologue 1 (BCR-ABL) gene. The siRNA of the invention demonstrates cycostatic activity and may be useful for modulating expression of the BCR-ABL gene, as well as for treating leukaemia or lymphoma and in diagnosis, drug screening, target identification and validation, genetic engineering, gene function studies and gene mapping. The current sequence is that of the human ABL1-targeted siRNA of the invention.
                                                                                                                                                                                                                                                                                                                                   New
                                                                                                               Sequence
                                                                                                                                                                                                                                                                                          Example
                                                                                                                                                                                                                                                                                                                                                                                                        Mcswiggen
                                                                                                                                                                                                                                                                                                                                                                                                                                     (RIBO-) RIBOZYME PHARM
                                                                                                                                                                                                                                                                                                                  double-stranded interfering nucleic acid, useful e.g. diagnosis of leukemia and lymphoma, downregulates the ster region-Abelson (BCR-ABL) gene.
                           3792 AGGGCGGCCGGCGGG 3807
 4
                                                       1 Similarity
15; Conserv
                                                                                                                                                                                                                                                                                         7;
AGGGCGGCCUGCGGGG
                                                                                                               19
                                                                                                                                                                                                                                                                                         SEQ ID NO 541; 197pp; English.
                                                                                                              BP; 1 A;
                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                        Beigelman L,
                                                                  0.3%;
                                                                                                              4 C; 12
19
                                                       0
                                                                    Score 14.4; DB 1;
Pred. No. 1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                           Chowrira
                                                                                                              G; 0 T; 2 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                          ₽,
                                                                                Length
                                                       Indels
                                                                                                                                                                                                                                                                                                                                 breakpoint
                                                                                                                                                                                                                                                                                                                                                  for treatment
                                                       0
                                                    Gaps
                                                      0
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RESULT 2044 ADF84566/c short interfering nucleic acid; siNA; breakpoint cluster reveabl Abelson murine leukaemia viral oncogene homologue 1; cytostatic; leukaemia; lymphoma; human; ss; siRNA; ABL1. 28-AUG-2003. Human Homo sapiens 26-FEB-2004 ADF84566; ADF84566 standard; RNA; 19 WO2003070972-A2 ABL1-targeted siRNA -(first ₽P SEQ IJ 860. BCR-ABL;

11-MAR-2002; 06-JUN-2002; 15-AUG-2002; 29-AUG-2002; 05-SEP-2002; 09-SEP-2002; 14-JAN-2003; 20-FEB-2002; 20-FEB-2003; 2003WO-US005234 2002US-0358580P. 2002US-036782P. 2002US-0366782P. 2002US-0404039P. 2002US-0406784P. 2002US-0406784P. 2002US-0409239P. 2003US-0439922P. 2003US-0439922P. 2003US-0440129P.

ŗ, Beigelman L, Chowrira Œ

(RIBO-)

RIBOZYME

PHARM

PT XXX 2003-679889/64.

double-stranded interfering nucleic acid, useful e.g. for treatment

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 2041
ADF84856/c
                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
Matches 14; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     chemically modified, can contain deoxyribonucleotides, and can be chemically synthesised, expressed from a vector or enzymatically synthesised. The invention also relates to kits for the in vitro or in synthesised. The invention also relates to kits for the in vitro or in vivo delivery of siNA; conjugates and/or complexes of siNA; and vectors that express siNA. The siNAs are used to modulate expression of the EZH2 gene in cells, tissue explants or organisms (e.g., by ex vivo gene therapy), or in grafts and transplants for the treatment of a variety of conditions. They may be used for treating cancer. The siNAs are also useful for drug screening, diagnosis, therapeutic target identification and validation, genetic engineering, pharmacogenomics, studying gene function, and gene mapping (e.g., of single nucleotide polymorphisms). The present sequence represents the upper strand of a human EZH2 targeted double stranded siNA, which is identical to the EZH2 transcript target
Homo sapiens
                                                  short interfering nucleic acid; siNA; breakpoint cluster region; v-abl Abelson murine leukaemia viral oncogene homologue 1; BCR-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             downregulate expression of the human polycomb group protein EZH2 general interference. The siNAs may or may not comprise ribonucleotides may be double or single stranded. They further comprise sense and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29-AUG-2002; 2002US-0406784P.
05-SEP-2002; 2002US-0408378P.
09-SEP-2002; 2002US-0409293P.
19-NOV-2002; 2002US-0427467P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20-FEB-2002; 2002US-0358580P.
11-MAR-2002; 2002US-0363124P.
06-JUN-2002; 2002US-0386782P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     antisense regions, or alternatively are assembled from a sense oligonucleotide and an antisense oligonucleotide. Specifically, the siNAs include short interfering RNA (siRNA), double-stranded RNA, micro-RNA (miRNA) and short hairpin RNA (shRNA). The siNAs can be unmodified or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 7; Page 117; 140pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  diagnosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mcswiggen
                                                                                                             Human ABL1-targeted siRNA - SEQ ID 1150.
                                                                                                                                                  26-FEB-2004
                                                                                                                                                                                                                        ADF84856 standard; RNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to short
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New short
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       13-FEB-2003; 2003WO-US004402
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              28-AUG-2003
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                                                                                                                                                                                                                                                                                                                                                     1591 TGGAAACAGAGAAGGA 1606
                                                                                                                                                                                                                                                                                                                    4 UGGAAACAGCGAAGGA 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                interfering nucleic acid, useful e. of prostatic cancer, downregulates
                                   leukaemia; lymphoma; human; ss; siRNA; ABL1
                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BP; 9 A;
                                                                                                                                                  (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2003US-0440129P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Beigelman L,
                                                                                                                                                entry)
                                                                                                                                                                                                                                                                                                                                                                                                             0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2 C; 7 G; 0 T; 1 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Haeberli P,
                                                                                                                                                                                                                                                                                                                                                                                                            Score 14.4; DB 1;
Pred. No. 1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        interfering nucleic acids (siNA)
                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Usman
                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1; Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                expression of the EZH2 gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 .g. for treatment and
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                                                                                                                                                                                                                                                                                                                                                                                            0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        which
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des and
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RESULT 2042
ADF84537
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Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to a novel double-stranded short interfering nucleic acid (siNA) that downregulates expression of the breakpoint cluster region-v-abl Abelson murine leukaemia viral oncogene homologue 1 (BCR-ABL) gene. The siRNA of the invention demonstrates cytostatic activity and may be useful for modulating expression of the BCR-ABL gene, as well as for treating leukaemia or lymphoma and in diagnosis, drug screening, target identification and validation, genetic engineering, gene function studies and gene mapping. The current sequence is that of the human ABL1-targeted siRNA of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New double-stranded interfering nucleic acid, useful e.g. and diagnosis of leukemia and lymphoma, downregulates the cluster region-Abelson (BCR-ABL) gene.
                                                                                                                             short interfering nucleic acid; siNA; breakpoint cluster regreshl Abelson murine leukaemia viral oncogene homologue 1; Bucytostatic; leukaemia; lymphoma; human; ss; siRNA; ABL1.
                                                                                                                                                                                    Human ABL1-targeted siRNA - SEQ
                                                                                                                                                                                                                                                                   ADF84537 standard; RNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 19 BP; 6 A; 5 C; 5 G; 0 T; 3 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29-AUG-2002;
05-SEP-2002;
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15-AUG-2002;
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11-MAR-2002;
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20-FEB-2002; 2002US-0358580P
                                                                              WO2003070972-A2
                                                                                                                                                                                                                26-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 7; SEQ ID NO 1150; 197pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2003-679889/64.
                          20-FEB-2003; 2003WO-US005234.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (RIBO-) RIBOZYME PHARM INC.
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                                                                                                        iomo sapiens
                                                                                                                                                                                                                                                                                                                                                           723 GTCTCCATGAGGTTCT 738
                                                                                                                                                                                                                                                                                                                                   17
                                                                                                                                                                                                                                                                                                                                                                                                 0.3%;
Similarity 93.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ç
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; 2002US-0358580P.

2002US-0363124P.

; 2002US-0386782P.

; 2002US-0404039P.

; 2002US-0406784P.

; 2002US-0408378P.

; 2002US-040923P.

; 2003US-0449923P.

; 2003US-0449129P.
                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2003WO-US005234.
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                                                                                                                                                                                                                                                                                                                                                                                     0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Chowrira B;
                                                                                                                                                                                                                                                                                                                                                                                                   Score 14.4; DB 1;
Pred. No. 1.1e+03;
                                                                                                                                                                                     ID 831.
                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
                                                                                                                                                                                                                                                                                                                                                                                               1.1e+03
                                                                                                                                                                                                                                                                                                                                                                                                              Length 19;
                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            breakpoint
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        for treatment
                                                                                                                                                                                                                                                                                                                                                                                      0;
                                                                                                                                                                                                                                                                                                                                                                                    Gaps
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RESULT 2039
ADF92961/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    can contain deoxyribonucleotides, and can be chemically synthesised,
cexpressed from a vector or enzymatically synthesised. The invention also
celates to kits for the in vitro or in vivo delivery of siNA; conjugates
and/or complexes of siNA; and vectors that express siNA. The siNAs are
cused to modulate expression of the telomerase genes in cells, tissue
explants or organisms (e.g., by ex vivo gene therapy), or in grafts and
cexplants for the treatment of a variety of conditions. They may be
cused for treating cancer, restenosis, infectious diseases (specifically
cused for treating cancer, or autoimmune or age-related diseases,
ce.g. multiple sclerosis, lupus exythematosus, AIDS, macular degeneration,
ce skin ulcers and rheumatoid arthritis. The siNAs are also useful for drug
screening, diagnosis, therapeutic target identification and validation,
centric engineering, pharmacogenomics, studying gene function, and gene
mapping (e.g., of single nucleotide polymorphisms). The present sequence
represents the lower strand of a human TERT-targeted double-stranded
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                        Human; polycomb group protein; EZH2; short interfering nucleic acid; siNA; short interfering RNA; siRNA; double-stranded RNA; micro-RNA; miRNA; short hairpin RNA; shRNA; expression modulation; gene therapy cancer; restenosis; drug screening; diagnosis; therapeutic target identification; pharmacogenomics;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to short interfering nucleic acids (siNA) which downregulate expression of the one or more telomerase genes by RNA interference. The siNAs may not comprise ribonucleotides and may be double or single stranded. They further comprise sense and antisense regions, or alternatively are assembled from a sense oligonucleotide and an antisense oligonucleotide. Specifically, the siNAs include short interfering RNA (siRNA) double-stranded RNA, micro-RNA (miRNA) and short hairpin RNA (shRNA). The siNAs can be unmodified or chemically modified, can contain deoxyribonucleotides, and can be chemically synthesised, expressed from a vector or enventional to contain deoxyribonucleotides, and can be chemically synthesised.
20-FEB-2002; 2002US-0358580P
                                      13-FEB-2003; 2003WO-US004402
                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                                         Human EZH2 siNA lower strand,
                                                                                                                                                                                                                                                                                                                                                                                                 26-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADF92961 standard; RNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New short interfering nucleic acid downregulates expression of the telomerase gene useful e.g. for treatment and diagnosis of cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (RIBO-) RIBOZYME PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         834 ACAGGCGACGACCCTG 849
                                                                                                                                                                                                           function
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACAGGCGAGGACCCTG 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BP; 1 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                       analysis; gene
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6 C; 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  G; 0 T; 5 U; 0 Other;
                                                                                                                                                                                                       mapping; cytostatic; vasotropic; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 14.4; DB 1;
Pred. No. 1.1e+03;
                                                                                                                                                                                                                                                                                                                                                      SEQ ID 166.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1; Indels
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                                                                                                                                                                                                                                                                     therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
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cc include short interfering RNA (sirNA), double-stranded RNA, micro-RNA (miRNA) and short hairpin RNA (shRNA). The siNAs can be unmodified or chemically modified, can contain deoxyribonucleotides, and can be compared to the sinas can be unmodified or chemically synthesised, expressed from a vector or enzymatically continued to the sinas to kits for the in vitro or in contained. The invention also relates to kits for the in vitro or in continued to the sinas are used to modulate expression of the EZH2 gene in cells, tissue explants or organisms (e.g., by ex vivo gene therapy), or in grafts and transplants for the treatment of a variety of conditions. They may be used for treating cancer. The sinas are also cuseful for drug screening, diagnosis, therapeutic target identification and gene mapping (e.g., of single nucleotide polymorphisms). The present sequence represents the lower strand of a human EZH2 targeted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            11-MAR-2002;
06-JUN-2002;
29-AUG-2002;
05-SEP-2002;
09-SEP-2002;
19-NOV-2002;
15-JAN-2003;
                                                                                                                                                                                                                                                                                                                                           antisense regions, or alternatively are assembled from a sense oligonucleotide and an antisense oligonucleotide. Specifically, the siNAs
                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to short interfering nucleic acids (siNA) which downregulate expression of the human polycomb group protein EZH2 gene RNA interference. The siNAs may or may not comprise ribonucleotides ar may be double or single stranded. They further comprise sense and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New short interfering nucleic acid, useful e.g. for treatment and diagnosis of prostatic cancer, downregulates expression of the EZ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mcswiggen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (RIBO-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2003-712612/67
                                       stranded siNA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        7; Page 117;
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2002US-0386784P.
2002US-0406784P.
2002US-0408378P.
2002US-0408378P.
2002US-0409293P.
2002US-04027467P.
2003US-0440129P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        140pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Haeberli P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Usman N;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EZH2 gene
                                                          targeted
                                                                                                                                                                                                                                                                                                                                                                                                        ne by
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Sequence 19 BP; 1 A; 7 C; 2 G; 0 T; 9 U; 0 Other;

밁 Ś Query Match Best Local S Matches 15 1591 TGGAAACAGAGAAGGA 1606 16 Similarity Conservative 0.3%; 0 Pred. No. 1.10 0; Mismatches Score 14.4; DB 1; Pred. No. 1.1e+03; DB 1; Length 19; Indels 0 Gaps 0

RESULT 2040 ADF92813 ID ADF9281 ADF92813; ADF92813 standard; RNA; 19 BP

26-FEB-2004

(first entry)

Human EZH2 transcript target sequence/siNA upper strand, SEQ H 18

Human; polycomb group protein; EZH2; short interfering nucleic acid; siNA; short interfering RNA; siRNA; double-stranded RNA; micro-RNA; miRNA; short hairpin RNA; shRNA; expression modulation; gene therapy. cancer; restenosis; drug screening; diagnosis; therapeutic target identification; pharmacogenomics; gene function analysis; gene mapping; cytostatic; vasotropic; ss.

Homo sapiens

WO2003070887-A2

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RESULT 2037
ADF93532
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       문
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CC deoxyribonucleotides, and can be chemically synthesised, expressed from a CC vector or enzymatically synthesised. The invention also relates to kits CC for the in vitro or in vivo delivery of siNA; conjugates and/or complexes CC of siNA; and vectors that express siNA. The siNAs are used to modulate CC expression of the IGF-IR gene in cells, tissue explants or organisms CC (e.g., by ex vivo gene therapy), or in grafts and transplants for the CC treatment of a variety of conditions. They may be used for treating CC kidney disease, inflammatory and/or allergic diseases, autoimmune CC diseases and transplant rejection. The siNAs are also useful for drug creening, diagnosis, therapeutic target identification and validation, CC genetic engineering, bharmacogenomics, studying gene function, and gene CC mapping (e.g., of single nucleotide polymorphisms). The present sequence CC represents the upper strand of a human IGF-IR targeted double-stranded CC siNA, which is identical to the IGF-IR transcript target sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local S
Matches 7
                                                                                                                                                                                                                                         20-FEB-2002; 2002US-0358580P.
11-MAR-2002; 2002US-0363124P.
06-JUN-2002; 2002US-0386782P.
17-JUL-2002; 2002US-0396600P.
29-AUG-2002; 2002US-0406784P.
05-SEP-2002; 2002US-0408378P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          antiarthritic; antiinflammatory; gene therapy; telomerase; human; terc; RNA interference; short interfering nucleic acid; siNA; short interfering RNA; siRNA; double-stranded RNA; micro-RNA; miRNA; short hairpin RNA; shone, expression modulation; gene therapy; drug screening; diagnosis; therapeutic target identification;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Cytostatic; vasotropic; protozoacide; immunosuppressive; dermatological; neuroprotective; anti-HIV; ophthalmological; antiulcer; antirheumatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 19 BP; 0 A; 9 C; 1 G; 0 T; 9 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human TERT transcript target sequence/siNA upper strand, SEQ ID 249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    26-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADF93532 standard; RNA; 19
Example 3; SEQ ID NO 249; 145pp; English
                                 New short interfering nucleic acid downregulates expression of the telomerase gene useful e.g. for treatment and diagnosis of cancer.
                                                                                                                                                                                                                                                                                                                                                                             11-FEB-2003; 2003WO-US004088.
                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO2003070742-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            pharmacogenomics;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADF93532;
                                                                                                                              Mcswiggen
                                                                                                                                                                                                                                                                                                                                                                                                                 28-AUG-2003
                                                                                                                                                                   (RIBO-) RIBOZYME PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          273 TCTCTCTTTCTCTCTC 288
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity 7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ucucccuuucucucuc 18
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                        2002US-0409293P.
2003US-0440129P.
                                                                                                                              Beigelman L;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          gene function
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 43.8%;
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Pred. No. 1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            analysis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          gene mapping;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TERC; TERT; ss
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The invention relates to short interfering nucleic acids (siNA) which CC downregulate expression of the one or more telemerase genes by RNA CC interference. The siNAs may or may not comprise ribonucleotides and may CC be double or single stranded. They further comprise sense and antisense CC regions, or alternatively are assembled from a sense oligonucleotide and cc interfering RNA (siRNA), double-stranded RNA, micro-RNA (miRNA) and short CC hairpin RNA (shRNA). The siNAs can be unmodified or chemically modified, CC can contain deoxyribonucleotides, and can be chemically synthesised, CC expressed from a vector or enzymatically synthesised. The invention also CC relates to kits for the in vitro or in vivo delivery of siNA; conjugates and/or complexes of siNA; and vectors that express siNA. The siNAs are CC used to modulate expression of the telomerase genes in cells, tissue explants or organisms (e.g., by ex vivo gene therapy), or in grafts and CC transplants for the treatment of a variety of conditions. They may be CC used for treating cancer, restenosis, infectious diseases (specifically grotozoal), transplant rejection, or autoimmune or age-related diseases. (e.g., multiple sclerosis, lupus erythematosus, AIDS, macular degeneration, CC estimated diseases, therapeutic target identification and validation, CC enapping (e.g., of single nucleotide polymorphisms). The present sequence represents the upper strand of a human TERT-targeted double-stranded cc siNA, which is identical to the c-fos transcript target sequence.
Sequence 19 BP; 5 A; 7 C; 6 G; 0 T; 1 U; 0 Other;
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Query Match
Best Local S
Matches 14
                      834 ACAGGCGACGACCCTG 849
                                             14;
H
                                                         Similarity
ACAGGCGAGGACCCUG 16
                                             Conservative
                                                        0.3%;
                                             Score 14.4; DB 1; Length 19; Pred. No. 1.1e+03; Indels 1; Indels
                                              <u>.</u>
                                             Gaps
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밁 S

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RESULT 2038
ADF93786/c
                                                                                                        ADF93786 standard; RNA; 19
Human TERT siNA lower strand, SEQ ID 513.
                                  26-FEB-2004
                                                                     ADF93786;
                                  (first entry)
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20-FEB-2002; 11-MAR-2002; 06-JUN-2002; 17-JUL-2002; 29-AUG-2002; Cytostatic; vasotropic; protozoacide; immunosuppressive; dermatological; neuroprotective; anti-HIV; ophthalmological; antiulcer; antirheumatic; antiinflammatory; gene therapy; telomerase; human; terc; RNA interference; short interfering nucleic acid; siNA; short interfering RNA; siRNA; double-stranded RNA; micro-RNA; miRNA; short hairpin RNA; shRNA; expression modulation; gene therapy; drug screening; diagnosis; therapeutic target identification; pharmacogenomics; gene function analysis; gene mapping; TERC; TERT; ss. 05-SEP-2002; 09-SEP-2002; 11-FEB-2003; 2003WO-US004088 Homo sapiens WO2003070742-A1 2002US-0396600P. 2002US-0406784P. 2002US-0408378P. 2002US-0409293P. 2002US-0440129P. 2002US-0358580P. 2002US-0363124P. 2002US-0386782P.

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CAGCCTGGCCGCCAGG

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RESULT 2035
ADF31861/c
              CC comprise ribonucleotides and may be double or single stranded. They CC further comprise sense and antisense regions, or alternatively are CC assembled from a sense oligonucleotide and an antisense oligonucleotide. Specifically, the siNAs include short interfering RNA (siRNA), double-CC Specifically, the siNAs include short hairpin RNA (shRNA). The siNAs CC can be unmodified or chemically modified, can contain CC deoxyribonucleotides, and can be chemically synthesised, expressed from a CC vector or enzymatically synthesised. The invention also relates to kits CC for the in vitro or in vivo delivery of siNA; conjugates and/or complexes CC of siNA; and vectors that express siNA. The siNAs are used to modulate expression of the IGF-IR gene in cells, tissue explants or organisms CC (e.g., by ex vivo gene therapy), or in grafts and transplants for the CC treatment of a variety of conditions. They may be used for treating CC cancer and other proliferative diseases (e.g., restenosis and polycystic kidney disease), inflammatory and/or allergic diseases, autoimmune CC diseases and transplant rejection. The siNAs are also useful for drug creening, diagnosis, therapeutic target identification and validation, pharmacorenomics at Maria Gene function and contains and con
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20-FEB-2002; 2002US-035850P.
11-MAR-2002; 2002US-0363124P.
06-JUN-2002; 2002US-0366782P.
29-AUG-2002; 2002US-0406784P.
05-SEP-2002; 2002US-0408378P.
09-SEP-2002; 2002US-0408378P.
15-JAN-2003; 2003US-0440129P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RNA interference; short interfering nucleic acid; sina; short interfering RNA; siRNA; double-stranded RNA; micro-RNA; miRNA; short hairpin RNA; shRNA; expression modulation; gene therapy; drug screening; diagnosis; therapeutic target identification; pharmacogenomics; gene function analysis; gene mapping; cancer; proliferative disease; restenosis; polycystic kidney disease; inflammatory disease; allergic disease; autoimmune disease; transplant rejection; cytostatic; vasotropic; nephrotropic; antiinflammatory; antiallergic; immunosuppressive; human; insulin-like growth factor 1 receptor; IGF-IR; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to short interfering nucleic acids (siNA) which downregulate expression of the human insulin-like growth factor 1 receptor (IGF-1R) gene by RNA interference. The siNAs may or may not
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New short interfering nucleic acid, diagnosis of cancer, downregulates
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADF31861 standard; RNA; 19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      receptor gene.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             useful e.g. for treatment and expression of the insulin-like growth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NO:526
gene
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RESULT 2036
ADF31584
ID ADF3158
XX ADF3158
AC ADF3158
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Best Local
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11-MAR-2002;
06-JUN-2002;
29-AUG-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RNA interference; short interfering nucleic acid; siNA; short interfering RNA; siRNA; double-stranded RNA; micro-RNA; mishort hairpin RNA; shRNA; expression modulation; gene therapy; drug screening; diagnosis; therapeutic target identification; pharmacogenomics; gene function analysis; gene mapping; cancer; proliferative disease; restenosis; polycystic kidney disease; inflammatory disease; allergic disease; autoimmune disease; transplant rejection; cytostatic; vasotropic; nephrotropic; antiinflammatory; antiallergic; immunosuppressive; human; insulin-like growth factor 1 receptor; IGF-IR; target sequence;
                                                                          The invention relates to short interfering nucleic acids (siNA) which downregulate expression of the human insulin-like growth factor 1 receptor (IGF-IR) gene by RNA interference. The siNAs may or may not comprise ribonucleotides and may be double or single stranded. They further comprise sense and antisense regions, or alternatively are assembled from a sense oligonucleotide and an antisense oligonucleotide.
                                                                                                                                                                                                                                                                                                                        diagnosis
factor-1 1
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                                                                                                                                                                                                                                                                                                                                              New short interfering nucleic acid, useful e.g. diagnosis of cancer, downregulates expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        20-FEB-2003; 2003WO-US005044
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                                                                                                                                                                                                                                                                    Example
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                                                                                                                                                                                                                                                                                                                                                                                                                              2003-721691/68.
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                                                                                                                                                                                                                                                                       SEQ ID
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2002US-0363124P.
2002US-0386782P.
2002US-0406784P.
2002US-0408378P.
2002US-0409237P.
2002US-0409239P.
2003US-0440129P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Beigelman L,
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                                                                                                                                                                                                                                                                    249; 147pp; English
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                                                                                                                                                                                                                                                                                                                                                    of the insulin-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length
                                                                                                                                                                                                                                                                                                                                              or treatment and the insulin-like growth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
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Specifically, the siNAs include short interfering RNA stranded RNA, micro-RNA (miRNA) and short hairpin RNA

(siRNA),

double-The sin

SINAS

chemically

unmodified

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RESULT 2034
ADF37666/c
ID ADF3766
XX
AC ADF3766
XX
AC ADF3766
XX
DT 12-FEB-
                                                                                                                                                                                                                                                         밁
                                                                                                                                                             S
                                                                                                                                                                                                                                                                              The present invention describes a double-stranded short interfering nucleic acid (siNA) that downregulates expression of the vascular endothelial growth factor receptor (VEGFR) gene. Also described: (1) a siNA that downregulates the VEGF gene; (2) kits for in vitro or in vivo delivery of siNA; (3) conjugates and/or complexes of siNA; (4) vectors that express siNA; and (5) single-stranded siNA with similar properties. The siNAs have antiarthritic, antipsoriatic, nephrotropic and gynaecological, antiarthritic, antipsoriatic, nephrotropic and gynaecological activities. The siNA are useful for modulating (downregulating) the expression of VEGFR genes. The siNA are potentially useful for treating a wide range of angiogenesis-associated conditions, particularly cancers, diabetic retinopathy, macular degeneration, neovascular glaucoma, arthritis, psoriasis, endometriosis, angiofibroma, and polycystic kidney disease. The siNA may also be useful for diagnosis, drug screening, target identification, and also for gene mapping (e.g. of single-nucleotide polymorphisms). The present sequence is used in the exemplification of the present invention.
                                                                                                                                                                                            Query Match
Best Local Similarity
Matches 14; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         11-MAR-2002;
11-MAR-2002;
29-MAY-2002;
06-JUN-2002;
03-JUL-2002;
29-JUL-2002;
29-ALG-2002;
05-SEP-2002;
09-SEP-2002;
04-NOV-2002;
                                                                                                                                                                                                                                                        Sequence 19
12-FEB-2004
                               ADF37666;
                                                           ADF37666 standard; RNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 3; SEQ ID NO 1708; 207pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20-FEB-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          28-AUG-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WO2003070910-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                polycystic kidney disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (RIBO-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15-JAN-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      double-stranded interfering nucleic acid, useful e.g. for treatment diagnosis of cancer, downregulates the vascular endothelial growth
                                                                                                                                                      5006 CAGCCTGGCTGCCAGG 5021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    sapiens.
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                                                                                                                                   w
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RIBOZYME PHARM INC.
                                                                                                                                  CAGCCUGGCCGCCAGG 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ģ
                                                                                                                                                                                                                                                      BP; 3 A; 8 C; 6 G; 0 T; 2 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2002WO-US017674.
2002US-0386782P.
2002US-0393796P.
2002US-039348P.
2002US-0406784P.
2002US-0408378P.
2002US-0409293P.
2002US-00287949.
                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2003WO-US005022
 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2003US-0440129P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2002US-0358580P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Beigelman L,
                                                                                                                                                                                                            0.3%;
                                                             ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pavco P;
                                                                                                                                                                                                            Score 14.4; DB 1, Pred. No. 1.1e+03,
                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                           DB 1;
                                                                                                                                                                                                                        Length 19
                                                                                                                                                                                              <u>,</u>
                                                                                                                                                                                              Gaps
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5006 CAGCCTGGCTGCCAGG 5021

Matches Query Match Best Local

15;

Conservative

0;

Mismatches

Similarity

93.8%;

Score 14.4; DB 1; Pred. No. 1.1e+03;

DB 1;

Length 19; Indels

0

Gaps

0

Sequence 19

BP; 2 A; 6 C; 8 G; 0 T; 3 U; 0 Other;

exemplification of the present invention.

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CC endothelial growth factor receptor (VEGFR) gene. Also described: (1) a CC siNA that downregulates the VEGF gene; (2) kits for in vitro or in vivo Cd delivery of siNA; (3) conjugates and/or complexes of siNA; (4) vectors CC that express siNA; and (5) single-stranded siNA with similar properties. The siNAs have antianglogenic, cytostatic, antidiabetic, ophthalmological, antiarthritic, antipsoriatic, nephrotropic and CC ophthalmological activities. The siNA are useful for modulating CC useful for treating a wide range of angiogenesis-associated conditions, CC particularly cancers, diabetic retinopathy, macular degeneration, CC neovascular glaucoma, arthritis, psoriasis, endometriosis, angiofibroma, CC and sorreening, target identification and validation, genetic congineering, studying gene function, and also for gene mapping (e.g. of single-nucleotide polymorphisms). The present sequence is used in the expression of twonticm
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20-FEB-2002;
11-MAR-2002;
29-MAY-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           nephrotropic; gynaecological; angiogenesis-associated condition; cancer; diabetic retinopathy; macular degeneration; neovascular glaucoma; arthritis; psoriasis; endometriosis; angiofibroma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                double-stranded short interfering nucleic acid; short interfering nucleic acid; siNA; downregulation; vascular endothelial growth factor receptor; VEGFR; antiang cytostatic; antidiabetic; ophthalmological; antiarthritic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human VEGFR3 short interfering
                                                                                                                                                                                                                                                                                               nucleic acid (siNA) that downregulates expression of the vascular endothelial growth factor receptor (VEGFR) gene. Also described:
                                                                                                                                                                                                                                                                                                                                                                      Example 3; SEQ ID NO 1955; 207pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                          New double-stranded interfering nucleic acid, useful e.g. for treatment and diagnosis of cancer, downregulates the vascular endothelial growth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mcswiggen J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          09-SEP-2002;
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29-AUG-2002;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                polycystic kidney disease; ss.
                                                                                                                                                                                                                                                                                                                                  The present invention describes a double-stranded short interfering
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   27-NOV-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         04-NOV-2002;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (RIBO-) RIBOZYME PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            iomo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; 2002US-0408378P.
; 2002US-0409293P.
; 2002US-00287949.
; 2002US-00306747.
; 2003US-0440129P.
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2002US-0399348P.
2002US-0406784P.
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2002US-0386782P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2002US-0358580P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Beigelman
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pavco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          nucleic acid (siNA) SEQ ID NO:1955
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      antiangiogenic,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    antipsoriatic;
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RESULT 2032
ADC24248/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CC panishment the presence of a first prime homologous to the second co PCR in the presence of a first primer homologous to the second coportion, where the unknown region is amplified. In the method of coportion, where the unknown region is amplified. In the method of cassociated DNA sequence, the template polynucleotide comprises a sense cassociated DNA sequence, the template polynucleotide comprises a sense concercated comprises a first or second portion. The unknown region is concert the 3'-end of the sense strand than is the known region. The known region is comprises a first or second portion. The first portion is comparises a first or second portion. The first portion is comparise is complementary to the first portion. The loop-forming configuration to the second portion of the first portion. The third region complementary to the second portion is generated at the free end of the comprises ATF1 (not defined) or BCR (B cell receptor). The method is useful for amplifying an unknown region that flanks a known region of a concer-associated DNA sequence. Also disclosed as new is the use of the method in the analysis of the breakpoint region of the human MLL gene, where the chromosomal breaks results in gene fusions with AF-4, CDK-6 and CC septing and acute myeloid leukaemia). MLL is located on chromosome clu23. The present sequence is a primer used in the analysis of the MLL and SML is located on chromosome.
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Best Local
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06-MAR-2002;
19-MAR-2002;
22-MAR-2002;
06-AUG-2002;
                                                                                                                                                                                                                                                                                              human; NOVX; cardiant; antiarteriosclerotic; hypotensive; vasotropic; dermatological; anorectic; immunosuppressive; cytostatic; antiinfertility; haemostatic; anti-HIV; antiasthmatic; antiinflammatory; antiinfertility; haemostatic; notropic; antiparkinsonian; gene therapy; cardiomyopathy; atherosclerosis; hypertension; congenital heart defect; pulmonary stenosis; scleroderma; obesity; metabolic disturbance; obesity; transplantation; adrenol-uwkodystrophy; congenital adrenal hyperplasia; prostate cancer; diabetes; metabolic disorder; neoplasm; adenocarcinoma; fertility; haemophilia; graft versus host disease; AIDS; bronchial asthma; Crohn's disease; multiple sclerosis; infectious disease; anorexia; neurodegenerative disorder; halaheimer's disease; Parkinson's disease; immune disorder; halaheimer's disease; Parkinson's disease; immune disorder;
                                                                                                    06-MAR-2003;
                                                                                                                                                                                 WO2003076584-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADC24248 standard; DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      template polynucleotide, ligating a loop-forming oligonucleotide to the 3'-end of the sense strand, annealing the loop-forming oligonucleotide with the first portion to generate a panhandle structure, subjecting the
                                                                                                                                                                                                                                                                               haematopoietic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4937
                                                                                                                                                                                                                       sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     reverse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                  2002US-0361974P
2002US-0365477P
2002US-0366928P
                                                                                                    2003WO-US006951
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first
                                                                                                                                                                                                                                                                                 disorder; dyslipidaemia; wasting disorder; PCR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ×
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PCR primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2 C; 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       G; 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 14.4; DB 1;
Pred. No. 1.1e+03;
0; Mismatches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       T; 0 U; 0 Other
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NO:55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1.
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                                                                                                                                                                                                                                                                                 primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                 88
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antiinflammatory, neuroprotective, anabolic, mootropic and cantiparkinsonian activities, and can be used in gene therapy. The NOVX csequences can be used as a therapeutic in the manufacture of a medicament for treating a syndrome associated with a human disease, such as a cpathology associated with NOVX. The NOVX proteins and nucleic acids encoding them are useful for diagnosing or treating pathologies, diseases or conditions associated with NOVX sequences, including cardiomyopathy, catheroselerosis, hypertension, congenital heart defects, pulmonary stenosis, scleroderma, obesity, metabolic disturbances associated with CC obseity, transplantation, adrenoleukodystrophy, congenital adrenal CC hyperplasia, prostate cancer, diabetes, metabolic disorders, neoplasm, CC adenocarcinoma, fertility, haemophilia, graft versus host disease, AIDS, CC disease, anorexia, neurodegenerative disorders (e.g. Alzheimer's disease, CC or parkinson's disease), immune disorders, haematopoietic disorders, dyslipidaemias, and wasting disorders associated with chronic diseases. CC or parkinson's disease, immune disorders, haematopoietic disorders, congenital asthma, crohm's disease, multiple sclerosis, infectious congenital asthma, crohm's disease, multiple sclerosis, infectious concents, and wasting disorders associated with chronic diseases. CC or parkinson's disease, immune disorders, haematopoietic disorders, congenital asthma, congenital as and as concents. The sequence mapping, congenital asthma as the disorders associated with chronic diseases. CC or and in forensic identification of a biological sample. The present con and in forents a PCR primer for a human NOVX sequence, which is used to an an analysing disease in the present invertion.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                obesity, multiple
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       hypotensive, vasotropic, dermatological, anorectic, immunosuppress cytostatic, antiinfertility, haemostatic, anti-HIV, antiasthmatic, antiinflammatory, neuroprotective, anabolic, nootropic and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention describes novel human proteins, designated proteins. The NOVX sequences have cardiant, antiarteriosclerotic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New NOVX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Rieger DK,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               treating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (CURA-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          rook JP, Burgess (
Macdougall JR, N
r DK, Sciore P, S
EZ, Zhong M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ç
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             polypeptides and nucleic acids, useful for diagnosing or e.g. cardiomyopathy, atherosclerosis, hypertension, scleroderma, prostate cancer, AIDS, bronchial asthma, Crohn's disease, or sclerosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CURAGEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ ID NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 55;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CE, Edinger SR, Gerlach VL, Ji W, Miller CE, Millet I, Patturajan M, Shenoy SG, Smithson G, Spytek KA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            229pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                immunosuppressive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             designated NOVX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Kekuda R;
Pena CEA;
Stone DJ;
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19 B₽; w ? σ Ç 4 <u>ი</u> σ H 0 Ξ. 0 Other;

example from the present invention.

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Query Match
Best Local S
Matches 15
1602 AAGGAGAAGATCCTGC 1617
                l Similarity
15; Conserv
                Conservative
                        0.3%;
                0
                               Score 14.4;
                         Pred.
                          ŏ.
                         .1e+03;
                                 DB 1;
                                Length 19;
                 Indels
                0;
                Gaps
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ADES
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        double-stranded short interfering nucleic acid; short interfering nucleic acid; short interfering nucleic acid; siNA; downregulation; short interfering nucleic acid; siNA; downregulation; antiangiogenic; vascular endothelial growth factor receptor; VEGFR; antiangiogenic; cytostatic; antidabetic; ophthalmological; antiarthritic; antipsoriatic; nephrotropic; gynaecological; angiogenesis-associated condition; cancer; diabetic retinopathy; macular degeneration; neovascular glaucoma;
                                                                                                                             Human VEGFR3
                                                                                                                                                                12-FEB-2004
                                                                                                                                                                                                 ADF37419;
                                                                                                                                                                                                                                ADF37419 standard; RNA; 19
                                                                                                                                                                                                                                                                                                                 16
                                                                                                                                                                                                                                                                                                                 AAGGAGAAGAGCCTGC
                                                                                                                            short interfering
                                                                                                                                                              (first entry)
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                                                                                                                             nucleic acid (siNA)
                                                                                                                             SEQ
                                                                                                                               ij
                                                                                                                               NO:1708
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arthritis;

endometriosis;

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RESULT 2030
ABL53957/c
ID ABL5395
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present invention describes a method of arraying genome clones. The method comprises; (a) clones of the genomic libraries contained in multiwell plates numbered for discrimination are mixed in each of the multiwell plates; (b) a primer designed based on the chromosome marker sequence is added to the mixture to carry out an amplification reaction; (c) a signal corresponding to the marker is detected from the resultant camplified product to specify the discrimination Nos. of the multiwell plates containing the clones having said marker sequence; (d) the order of the markers is changed so that the same discrimination Nos. succeed to the maximum in the specified discrimination Nos. to array the multiwell plates; (e) the clones in the multiwell plates of the specified condictions; (f) the mixed respectively in each wells of longitudinal and lateral directions; (f) the mixed clones are cultured and the resultant cultures are amplified by using the above primer; (g) signals and lateral directions; (f) the mixed clones are cultured and the camplified from the detected result; and (i) the clones are reconstituted as the positions on the chromosome and arrayed. The microarray is useful for gene analysis. ABIA2957 to ABIA5322 represent PCR primers for human chromosome 21g22.1, which are specifically claimed for use in the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local S
Matches 15
                                                                                                           19-FEB-1997;
25-AUG-1997;
17-NOV-1997;
                                                                                                                                                                                                                                                                                                                                     Leukaemia-associated MLL gene PCR primer.
                                                                                                                                                                                                                                                                                                                                                                     01-JUL-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                   ABL53957 standard; DNA; 19 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 19 BP; 4 A; 7 C; 4 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Arraying genome clones
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2002-144136/19
             WPI; 2002-360622/39
                                             Felix CA,
                                                                                                                                                                          19-FEB-1998;
                                                                                                                                                                                                          09-APR-2002
                                                                                                                                                                                                                                       US6368791-B1
                                                                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                                                     MLL gene; leukaemia; diagnosis; panhandle; PCR; human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (RIKA ) RIKAGAKU KENKYUSHO. (GENO-) GENOTEX YG.
                                                                           (CHIL-) CHILDRENS HOSPITAL PHILADELPHIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2849 TGGTGAGACTCTTCCA 2864
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4; Page 36; 528pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGGGGAGACTCTTCCA 1
                                           Jones DH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                           97US-0038624P.
97US-0056938P.
97US-0065911P.
                                                                                                                                                                          98US-00026033
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.3%;
                                           Rappaport
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 14.4; DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0
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RESULT 2031
ADB73394/c
ID ADB7339
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity
Matches 15; Conserv
                                                                                                                                                                                                                                                                25-AUG-1997;
17-NOV-1997;
19-FEB-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              patient. The primer is based on a polynucleotide product amplified by panhandle PCR, and was used in a validating PCR, generating a product of 411 nucleotides. The invention relates to methods for the panhandle PCR amplification of a region of DNA of unknown sequence that flanks a region of a leukaemia-associated gene, especially MLL, of known sequence in a human patient. When the method was applied to the ALL infant patient, a translocation breakpoint was identified at nucleotide 3802 of the breakpoint cluster region (bcr) of MLL, in MLL intron 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Amplifying an unknown region flanking a known region of the leukemia-
associated MLL gene for diagnosing leukemia, comprises using a panhandle
polymerase chain reaction.
                                                                                 Amplifying an unknown region that flanks a known region of a cancer-
associated DNA sequence by subjecting the panhandle structure to
extension and to PCR in the presence of a first primer homologous to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; ss; MLL; cancer; AF-4; CDK-6; SEPTIN6; ALL; acute lymphoblastic leukaemia; AML; acute myeloid leukaemia; chromosomal break point; chromosome 11q23; ATF; BCR; B cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 04-DEC-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 19 BP; 4 A; 2 C; 8 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present sequence is a primer used in the PCR amplification of genomic DNA obtained from cells of an acute lymphoblastic leukaemia (ALL) infant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; Col
                                                                                                                                                                                                                                                                                                                                         09-APR-2002; 2002US-00118783
                                                                                                                                                                                                                                                                                                                                                                      22-MAY-2003.
                                                                                                                                                                                                                                                                                                                                                                                                    US2003096255-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                             primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADB73394;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADB73394
                                                                                                                                               WPI; 2003-606415/57.
                                                                                                                                                                           Felix CA,
                                                                                                                                                                                                     (FELI/) FELIX C A.
(JONE/) JONES D H.
(RAPP/) RAPPAPORT E
                                                                                                                                                                                                                                                                                                           19-FEB-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human MLL/AF-4 breakpoint region PCR primer
                                                                                                                                                                                                                                                                                                                                                                                                                               domo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4937 GCCCCCCAACATGTAT 4952
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            standard; DNA; 19
                                                                                                                                                                           Jones DH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0.3%;
ilarity 93.8%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                97US-0056938P.
97US-0065911P.
98US-00026033.
                                                                                                                                                                                                                                                                                                           97US-0038624P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 29; 77pp;
                                                                                                                                                                          Rappaport
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 14.4;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            B cell receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
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The invention relates to amplifying an unknown region that flanks region of a cancer-associated DNA sequence comprising providing a

Example 1;

Page 18; 80pp; English.

portion

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ARESULT 2028
AAH61036/c
ID AAH6103
XX AAH6103
XX AAH6103
XX IO-SEP-
XX IO-SEP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local
                                                                                                                                                 Human; ribozyme therapy; hairpin ribozyme; hammerhead ribozyme; recognition site; target; ribozyme binding site; eye disease; vulnerary; proliferative disease; skin disease; pooriasis; diabetic retinopathy; cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP; matrix metalloproteinase; growth factor; reductase; scarring; cytostatic; antipsoriatic; dermatological; antiseborrheic; antidiabetic; virucide; antisickling; ophthalmological; keratolytic; gene therapy; viral wart; atopic dermattitis; actinic keratosis; squamous cell carcinoma; beborrheic wart; vitreoretinopathy; scar;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequences AAS42806-AAS42926 represent cDNA molecules and PCR primers for cDNA molecules encoding human G-protein coupled receptor (GPCR) polypeptides. The protein and DNA sequences of the invention can be used to identify compounds which bind to GPCR polypeptides and in screening for compounds that modulate GPCR activity. By screening a human subject for the presence of mutations in GPCR DNA, a GPCR-related disorder or a genetic predisposition can be diagnosed. The sequences can also be used for treatment and prevention of mental disorders such as schizophrenia, attention deficit disorder, anxiety, depression, dementia and bipolar disorder, neurological disorders such as funtington's disease,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       02-MAR-2000;
03-MAR-2000;
09-MAR-2000;
                               Homo sapiens.
Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Parkinson's disease and Tourette's syndrome, metabolic disorders such as obesity, anorexia and type 2 diabetes, cardiovascular disorders such as thrombosis, myocardial infarction, cardiomyopathy and atherosclerosis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Cyclin B1 ribozyme binding site SEQ ID NO:3460.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  10-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAH61036 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              viral infections caused by HIV and cancers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New isolated nucleic acid encoding a new G-protein coupled receptor polypeptide for detecting receptor modulators that can treat mental
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 4; Page 117; 279pp; English.
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03-APR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 disorders, such as schizophrenia, anxiety, depression, or obesity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2001-570628/64.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11-JUL-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     23-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (PHAA ) PHARMACIA & UPJOHN CO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             l Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ຸດ
                                                                                                                           cell retinopathy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ACCAGCAGCTCTCCCC 1240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACCAGCAGCTCTCCAC 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Wood LS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ВP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2000US-0186457P.
2000US-018864DP.
2000US-018866P.
2000US-0198860P.
2000US-0213861P.
2000US-021386P.
2000US-0217369P.
2000US-0217379P.
2000US-021837P.
2000US-021837P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8 C; 2 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Parodi LA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 14.4;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1.1e+03;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0
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JP2001321190-A. Homo sapiens PCR primer; ss.

10-MAR-2000; 2000JP-00066716 12-MAR-2001; 2001JP-00068285 Human chromosome 1p36-35 PCR primer SEQ ID NO:1599

Human; chromosome 1p36-35; chromosome 21q22.1; genetic analysis; genome;

11-APR-2002 (first entry)

ABL44555;

RESULT 2029 ABL44555/c

ABL44555 standard;

DNA; 19

ΒP

á 밁

5047 TCTTGAAATAGTGCAG 5062

18

TCTTGAACTAGTGCAG

Matches Query Match Best Local (

15,

Conservative

0

Similarity

0.3%;

Score 14.4; DB 1; Pred. No. 1.1e+03; Mismatches

DB 1; Length 19, Indels

0

Gaps

0

Sequence 19 BP; 5 A; 4 C; 3 G; 7 T; 0 U; 0 Other;

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nucleic acid molecule (II) comprising a promoter operably linked to a nucleic acid segment encoding (I). (I) can have antipsoriatic, dermatological, cytostatic, antiseborrheic, antidiabetic, antisickling, ophthalmological, vulnerary, keratolytic and virucide activities, and cleaves RNA encoding cytokine involved in inflammation. (I) can be used in gene therapy. (I) and (II) are useful for treating proliferative skin diseases such as psoriasis, atopic dermatitis, actinic keratosis, squamous or basal cell carcinoma and viral or seborrheic wart. They can also be used for treating proliferative eye diseases such as diabetic retinopathy, vitreoretinopathy, sickle cell retinopathy, retinopathy of prematurity and retinal detachment, and for treating and preventing scarring such as keloid, adhesion and hypertrophic or hypertrophic burn accar. AAH57577 to AAH62099 represent seguences used in the
                                                                                                                                                                                                                                                                                                                                                                  The present invention describes a method for treating a proliferative skin or eye disease and scarring. The method involves administering a ribozyme (I) which cleaves RNA encoding a cytokine involved in inflammation, matrix metalloproteinase (MMP), cyclin, cell-cycle dependent kinase, growth factor or a reductase, or administering a dependent kinase, growth factor or a reductase, or administering a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Treating proliferative skin or eye diseases and scarring, using ribozymes that cleave RNA encoding cytokines involved in inflammation, matrix metalloproteinases, growth factors and cell-cycle dependent kinases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 1; Page 323; 408pp; English.
                                           exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2001-300427/31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (IMMU-) IMMUSOL INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   26-OCT-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            26-OCT-2000; 2000WO-US029500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WO200130362-A2
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RESULT 2026
AAA85874/c
ID AAA8587
XX AAA8587
AC AAA8587
AC AAA8587
AC AAA8587
XX O4-DEC-
XX O4-DEC-
XX PEC-
XX OF CYClin
XX Ribozym
XX Mammali
                                                                                                                                                                                                                                                                                                                                                  밁
                                                                                                                                                                                                                                                         S
                                                                                                                                                                                                                                                                                                                                                                        The present invention describes a method using novel primers involving the PCR-based determination of histocompatibility locus antigen B (HLA-B) (Class I group type betermining the HLA-B Class I group type of a subject comprises: (i) combining a group-specific untranslated region primer pair with a target DNA sample from the subject under conditions such that primer-based amplification of the target DNA may occur; and (ii) cetermining whether a nucleic acid product is produced by the amplification; where the ability of the primer pair to produce a nucleic acid product is associated with a particular HLA group type. The method can be used for HLA-B typing. In the method, the initial group specific amplification allows a PCR based separation of haplotypes in 95% of patient samples. It permits the resolution of cis/trans linkages of heterozygote sequencing results which cannot be achieved with other protocols. AAX37845 to AAX38286 represent DNA sequence used in the exemplification of the present invention
                                                                                                                                                                                                                                                                                        Query Match
Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                  Sequence 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; histocompatibility locus antigen; HLA; determination; allele; HLA-B typing; PCR; HLA class I; cis/trans linkage resolution; ss.
                                                                                                                        AAA85874
                                                                                                                                                    AAA85874 standard; DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example; Page 21; 195pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Determination of HLA class I group type of a subject - using group specific untranslated region primer pair.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Blasczyk RH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WO9907883-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAX38067;
                               Ribozyme;
                                                             Cyclin B1
                                                                                          04-DEC-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (VISI-) VISIBLE GENETICS INC (BLAS/) BLASCZYK R H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         11-AUG-1997;
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                                                                                                                                                                                                                                                          3209 TCCGTGCAGTGGCTCC 3224
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                                                                                                                                                                                                                                                                                                      Similarity
                               hairpin; hammerhead; gene therapy; vasotropic; restenosis;
                                                             ribozyme
                                                                                                                                                                                                                                                                                                                                                BP; 4 A; 8 C; 6 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                      Conservative
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                                                           binding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     region primer SEQ ID NO:223
                                                                                          entry)
                                                                                                                                                                                                                                                                                                     0.3%;
                                                                                                                                                      ВP
                                                             site #203
                                                                                                                                                                                                                                                                                        <u>,</u>
                                                                                                                                                                                                                                                                                                      Pred.
                                                                                                                                                                                                                                                                                                                   Score 14.4;
                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                      No. 1.1e+03;
                                                                                                                                                                                                                                                                                                                    DB 1;
                                                                                                                                                                                                                                                                                                                   Length 19;
                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                      0,
                                                                                                                                                                                                                                                                                     Gaps
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RESULT 2027
AAS42902
ID AAS4290
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Best Local S
Matches 15
23-FEB-2000;
23-FEB-2000;
23-FEB-2000;
23-FEB-2000;
23-FEB-2000;
                                                                                                                                                                                                                                                                                                                                                                                            attention deficit disorder; anxiety; depression; bipolar disorder; ss; neurological disorder; Huntington's disease; dementia; obesity; anorex; metabolic disorder; Parkinson's disease; Tourette's syndrome; thrombositype 2 diabetes; cardiovascular disorder; myocardial infarction; cances cardiomyopathy; atherosclerosis; human immunodeficiency virus; HIV; viral infection; immunostimulant; neuroleptic; nootropic; tranquiliser.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present invention relates to a hairpin or hammerhead ribozyme, designed to cleave RNA encoding a cyclin or cell-cycle dependent kinase other than cell-cycle dependent kinases CDK1, PCNA and Cyclin B1.

Representative examples of ribozyme recognition sites are given in AAA82415 to AAA86787. The ribozyme of the invention is useful for inhibiting restenosis by introduction of the ribozyme into cells. The ribozyme is resistant to endonuclease activity and hence is efficient in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human; G-protein coupled receptor; GPCR; mental disorder; schizophrenia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 19 BP; 5 A; 4 C; 3 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; Page 99;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New hairpin and hammerhead ribozyme RNA encoding a cyclin or cell-cycle PCNA and Cyclin B1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            04-DEC-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human G Protein-Coupled Receptor (GPCR) PCR primer #36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       18-DEC-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAS42902;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAS42902
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                                                                                                                                                             23-FEB-2001; 2001WO-US005676.
                                                                                                                                                                                                                                                                   WO200162797-A2
                                                                                                                                                                                                                                                                                                                       Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               restenosis treatment
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                                                                                                                                                                                                                    30-AUG-2001.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCTTGAAATAGTGCAG 5062
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TCTTGAACTAGTGCAG
; 2000US-0184247P.
; 2000US-0184303P.
; 2000US-0184304P.
; 2000US-0184305P.
; 2000US-0184397P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               98US-0110954P
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                                                                                                                                                                                                                                                                                                                                                                           anorectic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           93.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    109pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Barber
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               w
                                                                                                                                                                                                                                                                                                                                                                           PCR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 14.4;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                           primer; gene therapy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    for inhibiting restenosis, cleaves dependent kinase other than CDK1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1.1e+03;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    thrombosis;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             anorexia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         cancer;
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Disclosure;

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AAQ82264
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Best Local (
                        Sequences were determined from the ends of chromosome 11-specific cosmids by automated sequencing without intermediate subcloning. A sample of 371 DNA sequence fragments were determined and of these, 277 were suitable for STS primer prediction by computer analysis (using the Primer program available from E.Lander, MIT). The STSs and cosmids were mapped by in situ hybridisation, somatic cell hybrid analysis or both. Using this method, 370 STSs specific for human chromosome 11 were generated and most of them were regionally mapped. This procedure illustrates a novel method for sequencing complex genomes, designated "sequence sampled mapping". The sequence sampled mapping method is useful for the completion of high density sequence-based maps, and ultimately, for the complete sequencing of genomic DNA directly from cosmid clones. See AAQ8201-Q82706 for STS primers. (Updated on 25-MAR-2003 to correct PN
                                                                                                                                                                                                                                                                                  Sequencing complex genomes, present as fragments in a cosmid library sequencing end-specific nucleotides of each clone then correlating wispatial relationship of cosmid, esp. for mammalian chromosomes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention relates to a method of inhibiting osteoclast-mediated bone resorption, comprising inhibiting the expression of an osteoclast associated gene or the activity of a gene product encoded the osteoclast associated gene. The method is useful in inhibiting osteoclast-mediated bone resorption. The present sequence is a Brn3 transcription factor binding site shown in the exemplification of the
                                                                                                                                                                                                                                                      Example 4; Page 73; 128pp;
                                                                                                                                                                                                                                                                                                                                                       WPI; 1995-036508/05
                                                                                                                                                                                                                                                                                                                                                                                      Evans GA, Smith
                                                                                                                                                                                                                                                                                                                                                                                                                                                    15-JUN-1993;
07-SEP-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15-JUN-1994;
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07-SEP-1995
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ce sampled mapping; genomic analysis; complex genome mapping; library; chromosome 11; sequence tagged site; STS analysis; ss.
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93US-00117952
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Pred. No. 9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STS
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RESULT 2025 AAX38067/c ID AAX3806

AAX38067 standard; DNA; 19 BP

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AAV46242/c
                                                 Query Match
Best Local S
Matches 15
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                                                                                                                         AAV46054 and AAV46200-V46264 are primers used in isolating human histocompatibility locus antigen (HLAA) Class I alleles which are used in a novel method of HLA Class I typing. The method involves combining a group-specific untranslated region primer pair with a target DNA to allow primer-based amplification of the DNA, and determining whether a nucleic acid product is produced by the amplification. The ability of the primer pair to produce a product is associated with a particular HLA group type. The methods can be used for typing the 3 classical HLA Class I genes (comprising the loci HLA-A, HLA-B, and HLA-C) in e.g. donors and hosts for tissue transplantation. The initial group specific amplification allows a PCR based separation of haplotypes in 95% of patient samples. The subsequent sequencing can provide for high-resolution typing
                                                                                                                                                                                                                                                                                                                            HLA Class I typing - by primer-based amplification group-specific untranslated region primer pair.
                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 19 BP; 5 A; 3 C; 9 G; 2 T; 0
                                                                                                                                                                                                                                                                                                  Claim 8; Page 136; 185pp; English.
                                                                                                                                                                                                                                                                                                                                                                      WPI; 1998-348544/30
                                                                                                                                                                                                                                                                                                                                                                                             Blasczyk RH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                 12-DEC-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           12-DEC-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     18-JUN-1998.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Histocompatibility locus antigen; HLA-A class I; human; class typing; donor; host; tissue transplantation; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human HLA-A primer #135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             16-OCT-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAV46242;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAV46242 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                        (VISI-) VISIBLE GENETICS INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Omo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local
              3209 TCCGTGCAGTGGCTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4754 GCTAGGCTGAGAGCAG 4769
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      sapiens.
16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    15;
                                                  15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                       19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCTAGGCTGGGAGCAG 19
                                                                                                    BP; 4 A;
                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         97WO-CA000955
                                                                                                                                                                                                                                                                                                                                                                                                                                                 96US-00766189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             93.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DNA; 19
                                                             0.3%;
                                                                                                    B C; 6
                        3224
                                                  0
                                                                                                    G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  <u>,,</u>
                                                              Score 14.4;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 14.4;
Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ç,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1.1e+03;
                                                                .1e+03
                                                                          DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0 Other
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 19;
                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                         of target DNA using
                                                  0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0
                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                  0
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RESULT 2021
ADJ76504
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                               respiratory epithelial cell; interleukin-13; respiratory; antiasthmatic; gene therapy; marker; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         neuroprotective, nootropic, anorectic, antidiabetic, antimicrobial, and antilipaemic activity, and may have a use in gene therapy, and as a vaccine. The polypeptides are encoded by NOVX polynucleotides comprising any of the 303 fully defined nucleotide sequences given in the specification. The polypeptide is useful in the manufacture of a medicament for treating a syndrome associated with a human disease. The polypeptide, polynucleotide and antibody are useful in diagnosing, treating or preventing NOVX-associated disorders, e.g. cancer, cachexia, Alzheimer's disease, Parkinson's disease, obseity, diabetes, infectious diseases, metabolic syndrome X or dyslipidaemias. The nucleic acids are further used as hybridisation probes, in chromosome mapping, tissue typing, preventive medicine, and pharmacogenomics. The present sequence is used in the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 18 BP; 1 A; 10 C; 1 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New NOVX polypeptides and nucleic acid molecules useful for preventing ctreating NOVX-associated disorders, e.g. cancer, diabetes, infection or obesity, and in chromosome mapping, tissue typing or pharmacogenomics.
                                                                              Testing for bronchial asthma or chronic obstructive pulmonary disease leading the expression level of a marker gene in a biological sample from a subject with the expression level of the gene in a sample from a
                                                                                                                                                                                                                                                                                                                                                                                                                                 Mus musculus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADJ76504 standard; DNA; 18
                                                                                                                                                                                    Ohtani N,
                                                                                                                                                                                                                                                        06-AUG-2002; 2002JP-00229312
20-MAR-2003; 2003JP-00077212
                                                                                                                                                                                                                                                                                                          04-AUG-2003; 2003EP-00254857
                                                                                                                                                                                                                                                                                                                                            03-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                              EP1394274-A2
                                                                                                                                                                                                                                                                                                                                                                                                                Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 bronchial asthma; chronic obstructive pulmonary disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SECTM1 forward PCR primer SEQ ID NO:1756.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention relates to a novel isolated polypeptide (NOVX). A polypeptide of the invention has cytostatic, immunomodulator,
                                                                  healthy subject
                                                                                                                                                      WPI; 2004-193155/19.
                                                                                                                                                                                                                      (GENO-) GENOX RES INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local Similarity
les 15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AGAAGGAGTGGCTGGA 1897
                                                                                                                                                                                    Sugita Y, Yamaya M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ID NO 1371; 1880pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 14.4; DB 1
Pred. No. 9.8e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                    Kubo H,
                                                                                                                                                                                    Nagai H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 1; Length 18;
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                                                                                                                                                                                    Izuhara
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0
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The present invention describes a method of testing for bronchial asthma

or the gene.

Example 11;

SEQ ID NO 1756; 241pp; English

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RESULT 2022
ADP88607
ID ADP8860
밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CC. or chronic obstructive pulmonary disease. The method comprises conditions the expression level of a marker gene in a biological sample cc expression level of the marker gene in a biological sample cc expression level of the marker gene in a biological sample from a healthy constructive pulmonary disease. The marker gene comprises: (a) a group of genes (S1) whose expression levels increase when respiratory epithelial cc cells are stimulated with interleukin-13; or (b) a group of genes (S2) cells are stimulated with interleukin-13; or (b) a group of genes (S2) consisted for bronchial asthma or chronic obstructive pulmonary disease; (c) a kit for screening for a candidate compound for a therapeutic agent ct to treat bronchial asthma or chronic obstructive pulmonary disease; (2) a kit for screening for a candidate compound for a therapeutic agent cc disease; (4) an inducer that induces bronchial asthma or chronic obstructive pulmonary disease; (5) a marker gene, a naimal model for bronchial asthma or chronic agent for bronchial asthma or chronic obstructive pulmonary disease; (6) a therapeutic agent for bronchial asthma or chronic obstructive pulmonary disease; (7) a marker gene, a ribozyme, a polymucleotide that suppresses the compound, a protein actima or chronic obstructive pulmonary disease, comprising the compound, or a protein actima or chronic obstructive pulmonary disease, on which a protein actima or chronic obstructive pulmonary disease, on which a compound and antiashmatic activities, and can be used in gene therapy. The method cis useful for testing for or screening for a therapeutic agent for method cis useful for testing for or screening for a therapeutic agent for method cis useful for testing for a compound compound. The method compound co
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
           Inhibiting osteoclast-mediated bone resorption by inhibiting the expression of an osteoclast associated gene comprising OC 1-285 eactivity of a gene product encoded by the osteoclast associated (
                                                                                                                                                                                                                                                                                                                                                                                                                                            osteopathic; osteoclast-mediated bone resorption; osteoclast associated gene; transcription factor; Brn3; ds; binding site.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 18 BP; 5 A; 6 C; 6 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                              11-DEC-2002; 2002US-0432700P
                                                                                                                                                                                                                                                                        11-DEC-2003; 2003WO-US039777.
                                                                                                                                                                                                                                                                                                                                                            WO2004052186-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Transcription factor Brn3 DNA binding site #7.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADP88607 standard; DNA; 18
                                                                                                                                         Stashenko P,
                                                                                                                                                                                                                                                                                                                    24-JUN-2004.
                                                                                                                                                                                                                                                                                                                                                                                                      Unidentified
                                                                                                                                                                                      (FORS-) FORSYTH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3475 AGGAGTCAAGGCCCAG 3490
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   15;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGGAGTCCAGGCCCAG 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                              Okamatsu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     93.8%;
                                                                                                                                       ĸ
                                                                                                                                              Sasaki H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 14.4; DB 1;
Pred. No. 9.8e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                              Battaglino
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <u>ب</u>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                              Spaete
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
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RESULT 2020
ADH72475/c
ID ADH72475 standard; DNA; 18
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               This invention relates to a novel method for the prediction, diagnosis, or prognosis of malignant neoplasia by the detection of at least two markers. The invention may also be useful for the development of cytostatic compounds through the regulation of the expression of a gene or activity of a protein associated with malignant neoplasia. The method is useful for prediction, diagnosis or prognosis of malignant neoplasia compounds the cancer, ovarian cancer, gastric cancer, colon cancer, colon cancer, coesophageal cancer, mesenchymal cancer, bladder cancer or non-small cell ung cancer. The polynucleotides and polypeptides defined in the specification, antisense polynucleotides targeting the polynucleotides, antibodies targeting either one of the polynucleotides or polypeptides, antibodies targeting malignant neoplasia. The disease treated is preferably breast cancer. The present sequence is that of a PCR primer or which was used in the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local S
Matches 15
03-JUN-2002

04-JUN-2002

05-JUN-2002

05-JUN-2002

06-JUN-2002

06-JUN-2002

06-JUN-2002

06-JUN-2002

06-JUN-2002

07-JUN-2002

07-JUN-2002

07-JUN-2002

07-JUN-2002

07-JUN-2002

07-JUN-2002

07-JUN-2002

10-JUN-2002

11-JUN-2002

11-JUN-2002
                                                                                                                                                                                                                                                                                                                                                                  human; cytostatic; immunomodulator; neuroprotective; nootropic; anorectic; antidiabetic; antimicrobial; antilipaemic; gene therapy; vaccine; cancer; cachexia; Alzheimer's disease; Parkinson's disease; obesity; diabetes; infectious disease; metabolic syndrome X; dyslipidaemia; ss; PCR; primer.
                                                                                                                                                                                                                                                            03-JUN-2003;
                                                                                                                                                                                                                                                                                                                WO2003102155-A2
                                                                                                                                                                                                                                                                                                                                          Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human reverse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             25-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   chromosomal
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGGAAAGGGCCTAGCT 4218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGGAAAGGGCCAAGCT 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.3%;
nilarity 93.8%;
Conservative
2002US-0385120P.
2002US-0386041P.
2002US-0386041P.
2002US-0386453P.
2002US-0386853P.
2002US-0386854P.
2002US-0386864P.
2002US-038691P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                regions altered in malignant neoplasia,.
                                                                                                                                                                                                                                                          2003WO-US017430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                    PCR primer of the invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ç
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Pred. No. 9.8e+02;
); Mismatches 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            T;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0
                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ۲.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 18;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0,
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2002US-0389144P
2002US-0389144P
2002US-0389742P
2002US-0389742P
2002US-0399742P
2002US-0390763P
2002US-0390763P
2002US-0401528P
2002US-0401528P
2002US-0402816P
2002US-0402816P
2002US-0402816P
2002US-0402832P
2002US-0403832P
2002US-0403831P
2002US-040831P
2002US-041831P
2002US-041831P
2002US-041831P
2002US-041831P
2002US-041831P
2002US-041831P
2002US-041831P
2002US-041831P
2002US-0417186P
2002US-041731P
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2002US-041731P
2002US-041731P
2002US-041731P
2002US-041731P
2002US-041731P
2002US-041731P
2002US-042869P
2002US-042869P
2002US-042869P
2002US-042869P
2002US-042839P
2002US-042339P
2002US-042339P
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2002US-0387836P.
2002US-0387833P.
2002US-0387933P.
2002US-0387934P.
2002US-0387960P.
2002US-0388022P.
2002US-0388026P.
2002US-0388026P.
2002US-0388026P.
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CURAGEN CORP.

Padigaru M, Rieger DK, Smithson G, Zhong H; Alsobrook JP, Alvarez E, Anderson DW, Boldog FL, Casman Catterton E, Chapoval A, Crabtree-Bokor JR, Edinger SR, Ettenberg S, Gangolli EA, Gerlach VL, Gorman L, Gunther Gusev VY, Herrmann JL, Ji W, Kekuda R, Li L, Liu X, Ma Maclachlan T, Malyankar UM, Mezick AJ, Millet I, Mishra Padigaru M, Patturajan M, Pena CEA, Peyman JA, Raha D, Rieger DK, Rothenberg ME, Sciore P, Shenoy SG, Shimkets Smithson G, Spytek KA, Stone DJ, Vernet CAM, Voss EZ, Z Boldog FL, Casman SJ; r JR, Edinger SR, Ellerman Gorman L, Gunther E, Guo) , Li L, Liu X, Macdougall Zhong ξ, ٧s; Rastelli ĭ x; JR; ۲ <u>×</u>

WPI;

2004-081935/08

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RESULT 2018
ABD18951
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human adenosine A2B receptor oligonucleotide fragment 964
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 18
Pharmaceutical composition for treating asthma, has antisense oligonuclectide containing less percentage of adenosine, targeted to nucleic acids associated with lung airway or lung dysfunction, and
                                                                                                                                                                                                                                                                                                                                                       24-APR-2001; 2001US-0286036P
                                                                                                                                                                                                                                                                                                                                                                                                                 23-APR-2002; 2002WO-US013143
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO200285309-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    pulmonary transplantation rejection; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; antisense; bronchoconstriction; allergy; hyposecretion; pain;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     29-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ABD18951 standard; DNA; 18'BP
                                                                                                                                    WPI; 2003-093058/08
                                                                                                                                                                                               Miller S,
                                                                                                                                                                                                                                                                                             (EPIG-)
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                                                                                                                                                                                                                                                                                      EPIGENESIS PHARM INC
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Tang
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                                                                                                                                                                                        Sandrasagra A,
L, Shahabuddin
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Pred.
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뭐 ફ

This invention describes a novel composition (a) a first active agent, comprising oligonucleotides, effective for alleviating

Predicting, diagnosing or prognosing malignant neoplasia by detecting least two markers, where the markers are genes from one or more

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Claim 15;

SEQ

ID NO 10343;

763pp; English

bronchodilating

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RESULT 2019
ADH13305/c
ID ADH1330
XX ADH1330
XX ADH1330
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Best Local Similarity
Matches 15; Conser
                                                                                                                                                                                                                                                                                                                    malignant neoplasia; cytostatic; breast cancer; ovarian cancer; gastric cancer; colon cancer; oesophageal cancer; mesenchymal cancer; bladder cancer; non-small cell lung cancer; human; PCR; primer; ss.
                                                                                                                                          21-MAY-2002; 2002EP-00010291.
13-FEB-2003; 2003EP-00003112.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                         EP1365034-A2.
                                                                                                                                                                                                                                                                                                                                                                                       Human malignant neoplasia-related PCR primer SeqID154.
                                                                                                                                                                                                                                                                                                                                                                                                                       11-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADH13305;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADH13305 standard; DNA; 18
                                             WPI; 2004-073279/08
                                                                                                                                                                                           09-MAY-2003; 2003EP-00010447.
                                                                                                                                                                                                                           26-NOV-2003.
                                                                                                             (FARB ) BAYER
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                                                                             Kallabis
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Pred. No. 9.8e+02;
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ABL30569
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Best Local S
Matches 15
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WPI; 2002-122074/16.
                                                                                               01-JUN-2000; 2000JP-00164798
                                                                                                                           01-JUN-2001; 2001WO-JP004662
                                                                                                                                                                                    WO200192572-A1
                                                                                                                                                                                                               Homo sapiens
                                                                                                                                                                                                                                         immunogenetic;
                                                                                                                                                                                                                                                                                                                  21-MAR-2002
                                                                                                                                                                                                                                                                                                                                                                        ABL30569
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                                                                                                                                                                                                                                                       human leukocyte antigen;
                                                       SYSTEM RES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
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                                                                                                                                                                                                                                                                                                                                                                        standard; DNA;
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                       Kagiya T,
                                                                                                                                                                                                                                                                                   genotyping
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                                                                                                                                                                                                                                         transplantation;
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Pred. No. 9.
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T;
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genetic disease; ss.
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                         Matsumura
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U;
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Human leukocyte antigen (HLA) typing, useful individuals e.g. by determining immunogenetic

for judging HLA go

genotypes

of.

The invention relates to a novel pharmaceutical composition, where the first active agent comprising an oligonucle-octide antisense to the initiation codon, coding region, 5' or 3' end genomic flanking 5' and 3' intron-exon junctions, or regions within 2-10 nucleol

Disclosure;

SEQ

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NO 10343;

872pp;

English

which has the

a

Pharmaceutical composition for treating allments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or

Miller

ß

Li Y, Tang

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Sandrasagra A, , Shahabuddin

Katz S;

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Pabalan

ŗ,

Aguilar

2003-229219/22

(EPIG-)

EPIGENESIS PHARM INC

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RESULT 2017
ABZ95101
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                                                                                                                                                                                                                                                                                                                                                                                              Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic; antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy; antisense gene therapy; respiratory; lung; adenosine sensitivity; antisense receptor; bronchodilation; bronchoconstriction; lung allergy;
                                                                                                                                                                                                                                                    24-APR-2001; 2001US-0286137P
                                                                                                                                                                                                                                                                                                        31-OCT-2002.
                                                                                                                                                                                                                                                                                                                                                           Homo
                                                                                                                                                                                                                                                                            23-APR-2002; 2002WO-US013135.
                                                                                                                                                                                                                                                                                                                                 WO200285308-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human adenosine A2a receptor antisense fragment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         17-OCT-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ABZ95101;
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                                                                                                                                                                                                                                                                                                                                                                                    inflammation; respiratory
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                <u>..</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <u>ი</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 14.4;
Pred. No. 9.
                                                                                                                                                                                                                                                                                                                                                                                     disease; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Η,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            .8e+02;
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ABQ81292/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              comultiwell plates numbered for discrimination are mixed in each of the cumultiwell plates; (b) a primer designed based on the chromosome marker containing the corresponding to the marker is detected from the resultant amplified product to specify the discrimination Nos. of the multiwell containing the clones having said marker sequence; (d) the order cof the markers is changed so that the same discrimination Nos. succeed to the maximum in the specified discrimination Nos. to array the multiwell cof the maximum in the specified discrimination Nos. to array the multiwell plates; (e) the clones in the multiwell plates of the specified constination Nos. are mixed respectively in each wells of longitudinal and lateral directions; (f) the mixed clones are cultured and the creation cultures are amplified by using the above primer; (g) signals are detected from the amplified by using the above primer; (g) signals are detected are specified from the detected result; and (1) the clones are creonstituted as the positions on the chromosome and arrayed. The mixed constituted as the positions on the chromosome and arrayed. The creonstituted as the positions on the chromosome and ABI45322 represent PCR primers for human chromosome 1936-35 DNA, and ABI45323 to ABI45634 represent PCR primers for human chromosome 21q22.1, which are specifically claimed for use in the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                         ABQ81292 standard; DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention describes a method of arraying genome clones. The method comprises: (a) clones of the genomic libraries contained in multiwell plates numbered for discrimination are mixed in each of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  12-MAR-2001; 2001JP-00068285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            JP2001321190-A
04-DEC-2000; 2000GB-00029524
                                                                                                                                                                                   Cytochrome P450; CYP1A1; enzyme; tachyphylaxis; drug tolerance; human; psoriasis; antipsoriatic; antipruritic; dermatological; PCR; primer; s
                                                                                                                                                                                                                                         Cytochrome P450 CYP1Al sense primer.
                                                                                                                                                                                                                                                                                12-DEC-2002
                                                                                                                                                                                                                                                                                                                     ABQ81292;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 4; Page 7; 528pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Arraying genome clones
                                   04-DEC-2001; 2001WO-GB005369
                                                                                                             WO200245704-A2
                                                                                                                                                  Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             10-MAR-2000; 2000JP-00066716
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (RIKA ) RIKAGAKU KENKYUSHO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4150 GACCTCCTGCTGGCTC 4165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 GACCTCCTGCTGTCTC 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BP; 1 A; 8 C; 4 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                            (first entry)
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                                                                                                                                                                                                                                                                                                                                                         ВÞ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 14.4;
Pred. No. 9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 1; Length 18.8e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            <u>.</u>
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                                                                                                                                                                                       88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0;
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RESULT 2015 AAD41863/c

AAD41863 standard; DNA; 18

US6380368-B1 30-APR-2002

Antisense therapy; infection; cardiovascular disorder; immune reaction; gene therapy; virucide; cytostatic; antibacterial; antiinflammatory; cancer; cardiant; ss.

Oligonucleotide #1 used to illustrate the invention.

30-OCT-2002 AAD41863;

(first entry)

26-NOV-1991; 25-AUG-1992; 23-OCT-1992; 25-NOV-1992;

91US-00799824. 92US-00935444. 92US-00965941. 92US-00976103.

12-FEB-1996;

96US-00599738

밁 S

17

CTGCTGGCTCATCCTG

4156 crecreccrecre 4171

l Similarity 15; Conserv

Conservative

0

Indels

0

Gaps

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The invention provides for the use of antagonists of P450 enzymes for the correction or alleviation of a tachyphylactic response to administration of a vitamin D analogue, corticosteroid or macrolactam to a patient, e.g. for the treatment of psoriasis. It is based on the finding that the underlying cause of tachyphylaxis (tolerance) is the degradation of a drug in the patient, rather than desensitization or receptor down-cregulation. Exposure of a patient to a drug for extended periods results in an increase in the expression of enzymes which are capable of metabolizing that drug. A method for treatment of tachyphylaxis involves inhibiting the induced metabolic enzyme by administration of an antagonist of the enzyme. Detection of an increase in the amount and/or activity of a metabolic enzyme capable of metabolizing a drug following extended exposure of a cell from an individual to the drug indicates the increased likelihood of that individual developing a tachyphylactic
    Query Match
Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present sequence is a sense primer for cytochrome P450 CYP1A1. RT-PCR was used to characterise metabolic enzyme induction by vitamin D analogues, corticosteroids and macrolactams in human skin. Expression of CYP1A1 increased in skin taken from psoriatic volunteers who exhibited tachyphylaxis after extended treatment with the macrolactam Tacrolimus.
                                                                                      Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         patient.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Alleviating or preventing a tachyphylactic response to an agent and treating psoriasis, comprises administering an antagonist of a metabolic enzyme, which is induced as a result of exposure to the agent, to a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 1; Page 74; 136pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (MOLE-) MOLECULAR SKINCARE LTD
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                                                                                        BP; 5 A; 5 C; 6 G; 2 T;
                                                                                                                                   the drug
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                      93.8%;
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    Score 14.4; D
Pred. No. 9.8e
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Duff G,
                                                                                          0 U; 0 Other;
4;
9.8e+02;
1;
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                                               DB 1; Length 18;
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cc factor-1 (CSF-1) encoding DNA. This sequence can be medified to produce CC high levels of long and short forms of CSF-1 and their truncated forms in CC particular systems such as E. coli. The invention relates to human and CC murine carboxy truncated forms of colony stimulating factor-1 (CSF-1) and CC their corresponding cDNA molecules. CSF-1 is a lymphokine useful for CC stimulating monocyte- precursor/macrophage cell production from CC progenitor bone marrow cells, enhancing the effectiveness of the immune CSF-1 is used as an adjunct to chemotherapy, in the restimulation CC of the immune system, and in treating leukaemia through bone marrow CC transplants or other accidental forms of immunosuppression such as CC Acquired Immune Deficiency Syndrome (AIDS). CSF-1 stimulates the CC production of lymphokines by macrophages and enhances their ability to infections. It is also used for treating granulocytopenia and CC macrophagocytopenia in patients receiving cancer therapy and for patients with implanted bone marrow. CSF-1 cDNA is also used in gene therapy. CSF-1 is used to destroy the invading organisms or malignant cells indirectly by the stimulation of macrophage secretions and activity
 RESULT 2012
ABS60941/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       문
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                   Human; 88; aminopeptidase P; XPNEP2; bradykinin receptor B1; primer; BDKRB1; tachykinin receptor B1; TACR1; C1 seterase inhibitor; C1NH; kallikrein 1; KLK1; bradykinin receptor B2; BDKRB2; gene therapy; angiotensin converting enzyme 2; ACE2; protease inhibitor 4; P14; polymorphism; haemangioma; tumour; sarcoma; Crohn's disease; trachoma; cardiovascular disease; angina pectoris; hypertension; heart failure; myocardial infarction; ventricular hypertrophy; vascular disease; aneurysm; embolism; thrombosis; coronary artery disease; angioedaema; arteriosclerosis; atherosclerosis; hypersensitivity; sepsis; PCR; autoimmune disease; inflammatory arthritis; cancer; wound; genotyping; viral infection; bacterial infection; fungal infection; COPD;
                                                    (BRIM )
                                                                                                      04-DEC-2000; 2000US-0251015P.
23-JAN-2001; 2001US-0263678P.
02-MAR-2001; 2001US-0273037P.
Tsuchihashi Z,
                                                                                                                                                                            03-DEC-2001; 2001WO-US047235
                                                                                                                                                                                                                   08-AUG-2002
                                                                                                                                                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                                                         Chronic obstructive pulmonary disease; enterocolitis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human genotyping
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ABS60941 standard; DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 18
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local Similarity
nes 15; Conserv
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                                 BRISTOL-MYERS SQUIBB TSUCHIHASHI Z. HUI L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GTACTCCGACACCTCC 3
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Hui L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      18; 45pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PCR primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2 C; 9 G; 3 T; 0 U; 0 Other;
Zerba KE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            #94.
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Pred. No. 9.8e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
Ma-Edmonds M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
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Perrone
<u>₹</u>
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CC sequence; (2) analysing (MI) at least one nucleic acid sample comprising containing the sample from one or more polymorphic positions in a gene concloin a protein selected from the group above; (3) constructing (M2) the protein selected from the group above; (3) constructing (M2) an individual at risk of developing a disorder cupon administration of an ACE inhibitor and/or vasopeptidase inhibitor comprises one or more polymorphic positions within a gene encoding a mainteraction of an ACE inhibitor and/or vasopeptidase inhibitor comprises one or more polymorphic positions within a gene encoding a comprise one or more polymorphic positions within a gene encoding a comprise one or more polymorphic positions within a gene encoding a comprise one polymorphic position, and comparing the nucleic acid sample, determining the nucleotide present in at least one polymorphic position, and comparing at least one position with a known data set. The genes, (M1, M2, M3 and M4) and compositions are useful for detecting, diagnosing, treating, compressed in the analysis of involve angiogenesis like haemangiomas, tumours, sarcomas, Crohn's disease, trachomas, and cardiovascular diseases like angina pectoris, hypertensitivity reactions, sepsis, autorimmune diseases, and pectoris, proteins and disease, arteriosclerosis and/or atherosclerosis, and pectorios constructive pulmonary disease (COPD) and enterocolitis (many other constructive pulmonary disease (COPD) and enterocolitis (many other constructions). The sarcoman and diseases and diseases are listed in the specification. Antibodies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                tachykinin receptor B1 (BDKRB1), clasterase inhibitor (CINH), kallikrein (KLK1), bradykinin receptor B2 (BDKRB2), angiotensin converting enzyme 2 (ACE2) or protease inhibitor 4 (PI4), comprising at least one polymorphic position. Also included are (1) a probe that hybridises to a polymorphic position as provided in the detailed summary of single nucleotide polymorphisms comprising additional 5 and 3 flanking genomic seguence; (2) analysing (M1) at least one nucleic acid assertion.
                                                polynucleotides are also useful for chromosome identification. Antibodies against the proteins may be utilised for immunophenotyping of cell lines and biological samples. The present sequence is a genotyping PCR primer for the gene encoding one of the proteins listed above
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 autoimmune diseases.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Swanson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to an isolated nucleic acid from a human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     risolated nucleic acid with at least one polymorphic position, us detecting, diagnosing and treating disorders such as angioedema, ucer, viral, bacterial or fungal infection, cardiovascular and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3; Page 904;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           English.
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Sequence 18 ВP; σ A; 1 C; 10 G; 1 T; 0 U; 0 Other;

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밁
                                  Query Match
Best Local S
Matches: 15
                1388 CTCCCTTATCCCTCCA 1403
18
                                           Similarity
                                   Conservative
                                         0.3%;
                                  0
                                         Score 14.4; DB 1
Pred. No. 9.8e+02
                                   Mismatches
                                                 DB 1; Length 18
                                 0
                                 Gaps
                                 0
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SXEXEXEXEX
                                                                                                                                    RESULT 2013
Homo sapiens
                              Human; chromosome
                  PCR primer; ss.
                                                   Human
                                                                        11-APR-2002
                                                                                                                ABL43060 standard; DNA; 18
                                                  chromosome 1p36-35 PCR primer SEQ ID NO:104.
                                                                       (first entry)
                            1p36-35; chromosome 21q22.1; genetic analysis; genome;
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RESULT 2010
AAC89100/c
ID AAC8910
XX AAC8910
XX AAC8910
XX Human C
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Best Local S
Matches 15
                                                                                                                                                                                                                                                                                      14-JUN-1985;
18-JUL-1985;
21-JAN-1986;
20-JUN-1986;
24-OCT-1986;
16-APR-1987;
16-APR-1987;
13-OCT-1987;
27-NOV-1991;
28-DEC-1992;
09-MAR-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                stimulating factor 1 (CSF-1) protein. These of immunosuppression and in the treatment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Novel
which
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               neoplasm;
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                      Novel DNA encoding carboxy truncated colony stimulating factor-1 useful for producing carboxy truncated colony stimulating factor1 polypeptide which is useful in overcoming immunosuppression induced by chemotherapy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US6146851-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human CSF-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             07-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present stimulating
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          21-APR-1995;
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                                                                                                                                                                                                                                              (CHIR ) CHIRON
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CSF-1; antiviral; antimicrobial; cytostatic; immunostimulator; Stimulating Factor-1; macrophage; immunosuppression; chemother
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GTACTCCGACACCTCC
                                                                                                                                                                    , Coyne
Martin G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            invention factor 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Col 57;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Martin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BP; 4 A; 2 C; 9 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           coding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first
                                                                                                                                                                                                                                                                                      85US-00744924

85US-00756814

86US-00821068

86US-00876819

86US-00923067

87US-00039654

87US-00039657

87US-00105261

97US-00799039

91US-00799411

92US-0099280

95US-00401632
                                                                                                                                                                                                                                              CORP
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85US-00728834
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DNA;
                                                                                                                                                                         g
R
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               46pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              93.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   provides truncated versions of the human colony (CSF-1) protein. These are useful in the prevent and in the treatment of cancers and infections
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         18
                                                                                                                                                                                               Halenbeck
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3403
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           fragment #2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 14.4; DB 1;
Pred. No. 9.8e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                               RF,
                                                                                                                                                                                               Koths
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 1; Length 18;
                                                                                                                                                                                               Ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                             Van
                                                                                                                                                                                               Arsdell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     n the prevention infections
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        chemotherapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
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AAD03862/c
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Best Local S
Matches 15
                                                                                                                                                                  18-JUL-1985;
21-JAN-1986;
20-JUN-1986;
24-OCT-1986;
16-APR-1987;
16-APR-1987;
13-OCT-1987;
27-NOV-1991;
                                                                                                                                                                                                                                                                  05-FEB-1985;
30-APR-1985;
14-JUN-1985;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present sequence is a coding sequence fragment of human Colony Stimulating Factor-1 (LCSF-1). CSF-1 induces the formation of colonies containing predominately macrophages. CSF-1 is useful for producing an N terminal carboxy truncated CSF-1 polypeptide which is useful for enhancing effectiveness of immune system, stimulating functions of differentiated cells, as anti-infective, anti-viral, anti-microbial agent and for overcoming the immunosuppression induced by chemotherapy and resulting from other causes. CSF-1 is also directly useful in treatment of neoplasms and infections. CSF-1 destroys microorganisms or malignant cells indirectly by stimulating macrophage secretions and activity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure; Col
                                                                                                                                                                                                                                                                                                                                                                                            Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                        gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAD03862 standard; DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 18 BP; 4 A; 2 C; 9 G; 3 T; 0 U; 0 Other;
                                                                                Ladner MB, V
Halenbeck RF,
                                                                                                                                              27-NOV-1991;
28-DEC-1992;
                                                                                                                                                                                                                                                                                                                    09-MAR-1995;
                                                                                                                                                                                                                                                                                                                                            20-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human truncated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   02-JUL-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAD03862;
                                                                                                                                                                                                                                                                                                                                                                     US6204020-B1
                                                                                                                                                                                                                                                                                                                                                                                                                             iuman; colony stimulating factor-1; CSF-1; immunosuppression; cytostatic; gene therapy; monocyte precursor; antimicrobial; chemotherapy; neoplasm; loquired Immune Deficiency Syndrome; AIDS; lymphokine; granulocytopenia; pone marrow transplant; macrophagocytopenia; antiviral; leukaemia;
                                                                                                                     CHIR ) CHIRON
                                                                                                                                                                                                                                                                                                                                                                                                                   immunostimulant; macrophage; infection; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3388
                                                                                                                                                                                                                                                                                                                                                                                          sapiens
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                                                                                             Van
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                           86US-00876819.
86US-00923067.
87US-00039654.
87US-00039657.
87US-00105261.
91US-00799031.
91US-00799411.
92US-00999280.
                                                                                                                                                                                                                                                        85US-00728834.
85US-00744924.
85US-00756814.
                                                                                                                     CORP.
                                                                                 Koths
                                                                                                                                                                                                                                            86US-00821068
                                                                                                                                                                                                                                                                                            85US-00698359.
                                                                                                                                                                                                                                                                                                                    95US-00401632.
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                                                                                             Arsdell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            native
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         93.8%;
                                                                                 Ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         mature colony stimulating
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                                                                                             Martin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 14.4;
Pred. No. 9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                             GΑ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9.8e+02;
                                                                                             Kawasaki
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            factor
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                                                                                             ES,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                             Coyne
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (CSF-1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                <u>.</u>
                                                                                              3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
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New carboxy truncated colony stimulating factor-1 protein an acids encoding them, useful in regulating the immune system overcoming immunosuppression induced by chemotherapy.

and nucleic

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RESULT 2008
AAA37724/c
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                      21-JAN-1986
20-JUN-1986
24-OCT-1986
16-APR-1987
16-APR-1987
13-OCT-1987
27-NOV-1991
27-NOV-1991
28-DEC-1992
09-MAR-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present sequence is that of modified DNA encoding the N-terminal region of human colony stimulating factor-1 (CSF-1) mature protein. Deletion of 2 or 3 N-terminal residues of CSF-1 facilitates recombinant expression of the protein in bacterial host cells. The invention provides N-terminally deleted, C-truncated CSF-1 muteins (see AAB19532-42) that are capable of stimulating monocyte precursor/macrophage cell production from progenitor bone marrow cells. They can be used to treat an immunosuppressed patient following chemotherapy, bone marrow of neoplasms transplantation or disease, as well as in the direct therapy of neoplasms
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       88.
                                                                                                                                                                                                                                                    14-JUN-1985;
18-JUL-1985;
                                                                                                                                                                                                                                                                                             30-APR-1985;
                                                                                                                                                                                                                                                                                                                05-FEB-1985;
                                                                                                                                                                                                                                                                                                                                                         21-APR-1995;
                                                                                                                                                                                                                                                                                                                                                                                                 15-AUG-2000.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CSF-1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human CSF-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               22-NOV-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAA37724
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   C-terminally
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2000-655462/63.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Coyne MY,
  (CHIR )
                                                                                                                                                                                                                                                                                                                                                                                                                                        US6103224-A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          .mmunosuppression;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (CHIR ) CHIRON CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3388
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                treatment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        colony-stimulating factor-1; immune
suppression; bone marrow transplant;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   15; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WB,
  CHIRON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GTCCTCCGACACCTCC 3403
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Martin GA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  protein N-terminal fragment coding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BP; 4 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Col 57; 45pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first
                                    86US-00821068.

86US-00876819.

86US-00923067.

87US-00039654.

87US-00039657.

87US-00105261.

91US-0079903.

91US-0079903.

91US-00799411.

92US-0099280.
  CORP.
                                                                                                                                                                                                                                                                     85US-00728834.
85US-00744924.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             entry.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                asms and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 18
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ВP
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Pred. No. 9.8e
0; Mismatches
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d infections
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   factor 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      system regulation; leukaemia;
human; long form; N-terminus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
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AAC93063/c
                                                                                                  21-JAN-1986;
20-JUN-1986;
24-CCT-1986;
16-APR-1987;
16-APR-1987;
13-CCT-1987;
27-NOV-1991;
27-NOV-1991;
                                                                                                                                                                                                                                                                   30-APR-1985;
14-JUN-1985;
18-JUL-1985;
Noble
                                      (CHIR
                                                                                                                                                                                                                                                                                                                                 05-FEB-1985;
                                                                                                                                                                                                                                                                                                                                                                          21-APR-1995;
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밁 5

JA,

Kawasaki

ES,

Coyne MY,

Halenbeck RF,

Koths KE;

CHIRON

CORP

91US-00799039. 91US-00799411. 92US-00999280.

87US-00105261

85US-00698359. 85US-00728834. 85US-00744924. 85US-00756814. 86US-00821068. 86US-00876819. 86US-00876819. 86US-00039654. 87US-00039657.

95US-00426571

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Matches
                                                                                                   Query Match
Best Local
                                                                                                                                                                                                                                                                                    This sequence encodes an N-terminal fragment of human colony-stimulating factor-1 (CSF-1) protein. The invention relates to a carboxy truncated version of the CSF-1 short form protein having residues 3-158 (CSF-1 is useful in regulating the immune system following immunosuppression induced by chemotherapy and also for treating patients in the immunosuppressed state (to prevent rejection) after treatment for leukaemia through bone marrow transplants. CSF-1 enhances the growth are
                                                                                                                                                                                                                       differentiation of bone marrow-derived precursors into macrophages and restimulates the immune system to prevent the side effect of chemotherapeutic treatments and prevent the propensity of the patient
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Colony stimulating factor-1 polypeptide useful in regulating immune system after immunosuppression induced by chemotherapy and for treating patients in the immunosuppressed state after bone marrow transplants.
                                                                                                                                                                 Sequence 18
                                                                                                                                                                                                          Buccumb
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure;
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                                        3388
18
                                                                               l Similarity
15; Conserv
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                                                                                                                                                                                                      to secondary infections
                            GTCCTCCGACACCTCC 3403
GTACTCCGACACCTCC
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Martin GA;
                                                                                 Conservative
                                                                                                                                                                 BP; 4 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Col 57; 45pp;
                                                                                                   0.3%;
                                                                                                                                                                 2 C; 9 G;
  w
                                                                                                                                                                                                                                                                                                                                                                                                                                                       English.
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                                                                               <u>.</u>
                                                                                                   Score 14.4;
Pred. No. 9.
                                                                                                                                                                 w
                                                                                    Mismatches
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                                                                                                                                                                 0 Other;
                                                                                                     8e+02;
                                                                                                                    DB 1;
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                                                                                                                      Length
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                                                                               Gaps
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cancer;
                                          Human colony
                                                                        23-MAR-2001
                                                                                                     AAC93063;
                                                                                                                                AAC93063 standard;
mouse; color; infection;
                                          stimulating factor CSF-1 N-terminal coding sequence #2.
                                                                      (first
               colony stimulating
   g
                                                                                                                                DNA; 18
                                                                      entry)
                factor 1;
                CSF-1;
                immunosuppression;
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Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     receptor-mediated cardiac, lung and/or renal damage or failure (particularly where associated with ischaemia, toxin release and/or administration of drugs or imaging agents, e.g. adenosine for treating supraventricular tachycardia); (adult) respiratory distress syndrome (e.g. associated with sepsia); allergic rhinitis; chronic obstructive pulmonary disease; cardiopulmonary hypoxia associated with administration of stress-test agents, particularly where such conditions are associated with acute inflammation. AAA02717, AAA02719, AAA02721 and AAA02723 to AAA02718 represent specifically claimed phosphorothioate antisense oligonuclectides for use in the composition of the present invention. AAA02718, AAA02720, AAA02722 and AAA03716 to AAA03720 represent other phosphorothioate oligonucleotides used in the exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Low adenosine antisense oligonucleotide; phosphorothioate; allergy; human; airway disorder; bronchoconstriction; lung inflammation; surfactant depletion; respiratory; bronchodilator; antiinflammatory; immunosuppressive; antiasthmatic; analgesic; hypotensive; cytostatic; respiratory obstruction; pulmonary obstruction; impeded respiration; surfactant hypoproduction; pulmonary vasoconstriction; asthma; RDS; respiratory distress syndrome; pain; cystic fibrosis; allergic rhinitis; pulmonary hypertension; emphysema; pulmonary transplantation rejection; chronic obstructive pulmonary disease; pulmonary infection; bronchitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human adenosine A2a receptor polynucleotide fragment #974
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 18 BP; 0 A;
                                                                                                                                                                                                                                                                                                                                                                                                                     WO200062736-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAF19407 standard; DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            present invention
                                                                                                                   Low adenosine (A) content antisense oligonucleotides which do not trigger adenosine receptors during metabolism, useful e.g. for treating cancers and respiratory obstructions.
                                                                                                                                                                                                                                                                                                               06-APR-1999;
                                                                                                                                                                                        WPI; 2000-679539/66.
                                                                                                                                                                                                                                                           (UYEC-) UNIV EAST CAROLINA. (NYCE/) NYCE J W.
                                                                                                                                                                                                                                                                                                                                               24-MAR-2000; 2000WO-US008020
                                                                                                                                                                                                                                                                                                                                                                                    26-OCT-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3741 grecceeeeeeeeee 3756
                                                                                                                                                                                                                                                                                                                                                                                                                                                        sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 w
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          88.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GTGCCCGCTCCCCGGC 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first
                                                                                                                                                                                                                                                                                                               99US-0127958P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   93.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11 C; 5 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ВP
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Pred. No. 9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9.8e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 1; Length 18;
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The present invention describes low adenosine (A) content antisense oligonucleotides and compositions (I) comprising them. In the antisense oligonucleotides the A is replaced by a 'Universal' or alternative base. (I) can have respiratory, bronchodilator, antiinflammatory, analgesic,

Claim 14;

Page

121;

1592pp; English.

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RESULT 2007
AAA88468/c
ID AAA8846
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CC immunosuppressive, antiasthmatic, hypotensive and cytostatic activities.

CC The antisense oligonuclectides and (I) can be used to down-regulate the CC surgression and or activity of target polypeptides associated with CC lung/respiratory disorders and malignancies, such as stimulating and activating peptide factors and transmitters, transcription factors, CC immunoglobulins and antibodies, antibody receptors, cytokines and CC chemokines, endogenously produced specific and non-specific enzymes, binding proteins, adhesion molecules and their receptors, cytokine and CC chemokine receptors, adenosine receptors, bradykinin receptors, central nervous system peptide receptors, binding proteins and peripheral nervous and non-nervous system peptide cransmitters, defensins, growth factors, vasoactive peptides and CC receptors, binding proteins and malignancy associated proteins. The antisense oligonucleotides may be used in this way to treat disorders including respiratory obstruction (especially pulmonary obstruction and/or lung inflammation, allergy(ies) and/or sondition selected from pulmonary vasoconstriction, inflammation, condition selected from pulmonary vasoconstriction, inflammation, pulmonary distress syndrome (RDS), pain, cystic fibrosis (CF), allergic rhinitis (AR), pulmonary conditions, and conditions, pulmonary vasoconstriction, and post pulmonary distress syndrome (CC pulmonary transplantation rejection, pulmonary distress syndrome (CC pulmonary transplantation of ARF21543 represent human polynucleotide the present invention of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity
Matches 15; Conserv
                                               20-JUN-1986;
24-OCT-1986;
16-APR-1987;
13-OCT-1987;
27-NOV-1991;
27-NOV-1991;
                                                                                                                                                                   30-APR-1985;
14-JUN-1985;
18-JUL-1985;
                                                                                                                                                                                                                                                                                                                          US6117422-A
                                                                                                                                                                                                                                                                                                                                                        Homo sapiens.
Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                            Colony stimulating
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human colony stimulating factor-1 N-terminal region DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAA88468;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAA88468 standard; DNA; 18 BP
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                                                                                                                                                     21-JAN-1986
                                                                                                                                                                                                                      05-FEB-1985;
                                                                                                                                                                                                                                                          21-APR-1995;
                                                                                                                                                                                                                                                                                        12-SEP-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 22-JAN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          the present invention
                                                                                                                                                                                                                                                                                                                                                                                                            .mmunosuppression;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3741 GTGCCCGCGCCCCGGC 3756
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
87US-00039654.

87US-00105261.

91US-00799039.

91US-00799411.

92US-00799280.

95US-00401632.

97US-00039657.
                                                                                                                   86US-
                                                                                                                                   86US-00821068.
86US-00876819.
                                                                                                                                                                     85US-00744924.
85US-00756814.
                                                                                                                                                                                                     85US-00698359.
85US-00728834.
                                                                                                                                                                                                                                                        95US-00425876
                                                                                                                                                                                                                                                                                                                                                                                                            factor-1; CSF-1; human; lymphokine; immunostimulant;
neoplasm; cancer; infection; therapy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0.3%;
93.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 14.4; DB 1; Length 18; Pred. No. 9.8e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
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RESULT 2004
AAZ71869/c
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Best Local
AAZ65654 to AAZ69578 represent human biallelic markers from the present invention, which contain a polymorphic base at position 24 of their nucleotide sequences. AAZ69579 to AAZ77440 represent amplification primers for the biallelic markers. The biallelic markers of the invention have a variety of uses: they can be used for high density mapping of the human genome, and in complex association studies and haplotyping studies which are useful in determining the genetic basis for disease states. Compositions and methods of the invention can also be useful for the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             invention, which contain a polymorphic base at position 24 of their nucleotide sequences. AAZ69579 to AAZ77440 represent amplification primers for the biallelic markers. The biallelic markers of the invention have a variety of uses: they can be used for high density mapping of the human genome, and in complex association studies and haplotyping studies which are useful in determining the genetic basis for disease states. Compositions and methods of the invention can also be useful for the identification of the targets for the development of pharmaceutical agents and diagnostic methods, as well as the characterisation of the differential efficacious responses to and side effects from pharmaceutical agents acting on a disease as well as other treatment.

N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and 3357, are not actually given a sequence in the Sequence Listing from the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human genome; biallelic marker; high density disequilibrium map; genomic map; haplotype; phenotype; polymorphic base; genotyping; haplotyping; high disease; denotyping; haplotyping; hybridiaation; identification; characterisation; emplification; single nucleotide polymorphism; SNP; PCR primer; emplification;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           21-APR-1998;
23-NOV-1998;
                                                                                                                                                                                                                                            Claim
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        21-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           28-OCT-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                diagnosis; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human biallelic marker upstream amplification primer SEQ ID NO:6225.
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                                                                                                                                                                                                                                                                                            the human
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                                                                                                                                                                                                                                         Page
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       standard; DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                         Blumenfeld
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                                                                                                                                                                                                                                       1558; 2745pp;
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98US-0109732P
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                                                                                                                                                                                                                                                                                                                 used
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Pred. No. 9.
                                                                                                                                                                                                                                                                                                                    construct
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                                                                                                                                                                                                                                                                                                                 high
                                                                                                                                                                                                                                                                                                                 density
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                                                                                                                                                                                                                                                                                                                 disequilibrium
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Best Local S
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09-JUN-1998;
09-JUN-1998;
    The present invention describes a pharmaceutical composition, comprising at least one agent (I) that prevents, alleviates and/or inhibits adenosine-mediated cardiopulmonary and/or renal damage and/or failure.

(I) is an adenosine A2a receptor agonist (Ia), or an oligonucleotide (Ib), containing less than 15% adenosine (A), that is antisense to targe genes or corresponding RNA, to genomic flanking regions (i.e. 5' or 3' ends or segments between coding and non-coding sequences), or to all segments of mRNA encoding the adenosine A1, A2a bor A3 receptors, thas A1, A2b or A3 agonist activity or A2a antagonist activity (or at least no agonist activity at this receptor). (I) may be a mixture of (least no agonist activity at this receptor).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   adenosine A2a receptor; adenosine Ab receptor; adenosine A3 receptor phosphorothicate; cardiopulmonary failure; renal failure; ischaemia; endotoxin release; ARDS; acute respiratory distress syndrome; cytoprotective; anti-allergic; anti-inflammatory; anti-hypoxic; supraventricular tachycardia; allergic rhinitis; acute inflammation; chronic obstructive pulmonary disease; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 agents and diagnostic methods, as well as the characterisation differential efficacious responses to and side effects from pharmaceutical agents acting on a disease as well as other tr. N.B. The SEQ ID NOs 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3367, are not actually given a sequence in the Sequence Listing
                                                                                                                                                                                                                                     Nove1
                                                                                                                                                                                                                                                                  WPI; 2000-116433/10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                   08-JUN-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAA03687 standard; DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 18
                                                                                                                                                                                                                                                                                                                           (EPIG-)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2755 ACCTGGAGTTCCACTC 2770
                                                                                                                                                                                                                                     composition for
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           adenosine Al receptor; antisense oligonucleotide;
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15; Conserv
                                                                                                                                                                                                                                                                                                                           EPIGENESIS PHARM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        invention
                                                                                                                                                                                       Page 38;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BP; 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
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98US-00093972.
98US-0088657P.
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                                                                                                                                                                                                                                treating or preventing e.g. cardiopulmonary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ü
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6 G;
                                                                                                                                                                                       English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 14.4;
Pred. No. 9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A3 receptor; ischaemia;
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                                                                                                                                                          comprising
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RESULT 2002
AAZ91422/c
ID AAZ9142
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Best Local Similarity
Matches 15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present sequence represents an antisense primer for the PCR amplification of fibronectin DNA. PCR was used in an experiment examining the effects of connective tissue growth factor (CTGF) on mesangial cell matrix production. The CTGF gene had been identified, using a novel cells. To investigate the direct effects of CTGF up-regulation, mesangial cells are incubated with recombinant CTGF protein. This resulted in up-regulation of cell collagens I and IV and fibronectin. These proteins typify matrix accumulation as seen in diabetic nepropathy (DN). The invention provides methods for identifying genes having a role in the presentation of DN. These genes can be used as a diagnostic marker for the progression and presentation of DN, and as an index of disease activity and the rate of progression of DN, and as a basis for identifying drugs for use in the presentation of DN, and as a basis for identifying drugs
                                                                                                                                                                                                                                     Human; Ship inhibition;
                                                                                                                                                                                                                                                                                 Human Ship-2 phosphorothicate antisense oligonucleotide #30704
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        genes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Identifying genes used for identifying drugs for the prevention and/or therapy of diabetic nephropathy involves culturing mesangial cells in the presence of glucose which induces differential expression of susceptible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Brady HR,
                                                                                                                                                                                                           Homo
                                                                                                                                                                                                                                                                                                              22-MAY-2000
                                                                                                                                                                                                                                                                                                                                            AAZ91422;
                                                                                                                                                                                                                                                                                                                                                                        AAZ91422 standard; DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 18
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             25-JUN-1999;
                                         25-JUN-1999;
                                                                       15-FEB-2000
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                                                                                                                                                           modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             for use in the prevention and/or therapy of DN
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(UYDU-) UNIV COLLEGE DUBLIN
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                                                                                                                                                                                                        sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                  18 CTACCGTGTGGATGTG 3
                                                                                                                                                                                                                                                   Ship-2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Godson CM,
                                                                                                                                                                                                                                    -2; antisense oligonucleotide; phosphorothioate; detection;
SH2-containing phosphatidylinositol phosphatase-2; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BP; 6 A; 6 C; 3 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                              (first entry)
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            9908-00339964
                                         9905-00339964
                                                                                                                                           /*tag=
                                                                                                                                                                          Location/Qualifiers
                                                                                                                                /note= "phosphorothioate linkages"
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Pred. No. 9.
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RESULT 2003
AAZ70135/c
ID AAZ7013
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Matches
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present invention describes phosphorothioate antisense oligonuclectides that specifically hybridise with, and inhibit the expression of, nucleic acids encoding human Ship-2 (also called SH2-containing phosphatidylinositol phosphatase-2). Also described is a method of inhibiting the expression of Ship-2 in human cells or tissues in vitro comprising contacting the cells with the phosphorothioate antisense oligonuclectides. The phosphorothioate antisense oligonuclectides can be used to treat animals (especially humans) suspected of having or being prone to a disease or condition associated with Ship-2 expression. The present sequence represents a phosphorothioate antisense oligonucleotide for human Ship-2, from the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0135/c
AAZ70135
                                                                                                                                                                                                                                                                                                                                Human genome; biallelic marker; high density disequilibrium map; genomic map; haplotype; phenotype; polymorphic base; genotyping; haplotyping; identification; characterisation; haplotyping; hybridisation; identification; characterisation; amplification; single nucleotide polymorphism; SNP; PCR primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 18 BP; 3 A; 4 C; 5 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 3;
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                                     Novel biallelic markers used map of the human genome.
                                                                                                                                                                21-APR-1998;
23-NOV-1998;
                                                                                                                                                                                                                                                                WO9954500-A2
                                                                                                                                                                                                                                                                                                                    diagnosis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                 10-SEP-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Antisense oligonucleotides, useful for inhibiting human Ship-2 expression
                                                                                                                                                                                                        21-APR-1999;
                                                                                                                                                                                                                                    28-OCT-1999.
                                                                                                                                                                                                                                                                                                                                                                                                      Human biallelic marker upstream amplification primer SEQ
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                                                                              WPI; 2000-013267/01
                                                                                                          Cohen
                                                                                                                                     (GEST ) GENSET
                                                                                                                                                                                                                                                                                          Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2005 AGAACCGGATCAGCCA 2020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   15;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              detecting nucleic acids encoding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGAACCGTATCAGCCA 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Col 39; 34pp; English.
                                                                                                        Blumenfeld
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                98US-0082614P
98US-0109732P
                                                                                                                                                                                                        99WO-IB000822
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               93.8%;
                                                                                                          Z,
                                                                                                          Chumakov
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 14.4;
Pred. No. 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                  construct a high density disequilibrium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .8e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ship-2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                      ID NO:4491.
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Claim 8; Page 1188; 2745pp; English

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               diseases and conditions. Typical diseases and conditions are those associated with impaired respiration and inflammation, including lung diseases pulmonary vasoconstriction, inflammation, allergic rhinitis, acute asthma, allergies, asthma, impeded respiration, respiratory distress syndrome, pain, cystic fibrosis, pulmonary hypertension, pulmonary vasoconstriction, emphysema, chronic obstructive pulmonary disease (COPD), and cancers such as leukemias, lymphomas, carcinomas e.g. colon cancer, breast cancer, lung cancer, malaroma, hepatic cancer, hepatocellular carcinoma, kidney cancer, melanoma, hepatic metastases, as well as all types of cancers which may metastasize or have metastasized to the lungs, including breast and prostate cancer
                                                                                                                                                                                                                                        Human; adenosine receptor; low adenosine antisense oligonucleotide; phosphorothioate; impaired respiration; inflammation; allergy; allergic disease; bronchoconstriction; inhibitor; antiinflammatory; antiallergic; antiasthmatic; cytostatic; analgesic; impaired airway; lung disease; ischaemic condition; pulmonary vasoconstriction; asthma; respiratory distress syndrome; pain; cystic fibrosis; emphysema; pulmonary hypertension; chronic obstructive pulmonary disease; COPD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               codons, genomic flanking regions, intron-exon borders, the 5'-end, the 3 end and the juxta-section between coding and non-coding regions and all segments of RNAs encoding proteins associated with one or more diseases, conditions or mixtures. The antisense oligonucleotides may be derived from sequences AAX55272-74. These multiple target oligonucleotides (specifically AAX55180-271) can be used for the antisense treatment of
                             24-FEB-2000
                                                                                          WO200009525-A2
                                                                                                                                                    Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Low adenosine antisense oligonucleotide SEQ ID NO:974.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              28-JUL-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAA33285 standard; DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             directed against at least 2 mRNAs selected from target years, common non-coding regions of RNAs corresponding to target genes, gene initiation non-coding regions of RNAs corresponding to target genes, the 5'-end, the 3'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The specification describes antisense oligonucleotides (AAX52869-X55271) directed against at least 2 mRNAs selected from target genes, coding and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; Page 42; 120pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New antisense oligonucleotides used in treatment vasoconstriction.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    09-JUN-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 Similarity
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                                                                                                                                                                                                                    leukaemia;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 97US-0059160P.
98US-00093972.
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                                                                                                                                                                                                                 lymphoma;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11 C;
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                                                                                                                                                                                                                 carcinoma; metastasis; ss.
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Pred. No. 9.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
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U;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
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31-AUG-2000 WO200050637-A1 diagnosis;

PCR

primer;

88

Homo sapiens.

Fibronectin; human; connective tissue growth factor; CTGF; diabetic nephropathy; diabetes; differential expression; marker;

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cc antiasthmatic, cytostatic and analgesic activities. The compositions are cuseful for the treatment of diseases associated with inflammation, cc impaired airways, including lung disease and diseases whose secondary cc impaired airways, including lung disease and diseases whose secondary cc effects afflict the lungs of a subject. They can be used for treating cc e.g. ischaemic conditions, pulmonary vasoconstriction, allergies, asthma, cc fibrosis, pulmonary hypertension, emphysema, chronic obstructive cc pulmonary disease (COPD), and cancers such as leukaemias, lymphomas, cc carcinomas, and cancers which may metastasise to the lungs, including cc breast and prostate cancer. The reduction of the adenosine content of the CC ons reduces side effects. The A-containing ONs break down with the cc preciously prostate cancer in the sequence listing from the present the nucleotide sequences given in the sequence listing from the present cc invention, which correspond to SEQ ID NO:11 to 185, but the sequences differ cc from the previously named sequences. SEQ ID NO:11 to 1880 (AAA33231 to AAA33392) are specifically claimed ONs from the present invention on thatch cc up with their corresponding SEQ ID NO:1 to 1880 (AAA33231 to AAA33992) are specifically claimed ONs from the present invention on thatch cc listing for the present invention do not match cc listing for the sequence of the present invention do not match corresponding SEQ ID NO: sequences given in the sequence cc listing form the present invention on the match cup with their corresponding SEQ ID NO: sequences given in the sequence corresponding SEQ ID NO: sequences given in the sequence corresponding SEQ ID NO: sequences given in the sequence corresponding SEQ ID NO: sequences given in the sequence corresponding SEQ ID NO: sequences given in the sequence corresponding SEQ ID NO: sequences given in the sequence corresponding SEQ ID NO: sequences given in the sequence corresponding SEQ ID NO: sequences given in the sequence corresponding SEQ ID NO: sequences giv
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Matches 15; Conserv
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Best Local
                                                                                                                                                                                                                                                                                                                               AAA50421;
                                                                                                                                                                                                                                                                                                                                                                           AAA50421 standard; DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 18 BP; 0 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              oligonucleotide (ON) with low adenosine (up to 15%), which targe nucleic acids involved in bronchoconstriction, allergies, and/or inflammation. The ON can have antiinflammatory, antiallergic,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        03-AUG-1999;
                                                                                                                                                                                                                                Fibronectin gene antisense PCR primer.
                                                                                                                                                                                                                                                                                20-NOV-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 18; Page 387; 1343pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    bronchitis, emphysema, respiratory distress syndrome, ischemia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New antisense oligonucleotides useful for treating e.g. pulmonavasoconstruction, inflammation, allergies, asthma, hypertension
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2000-205971/18.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3741 GTGCCCGCGCCCCGGC 3756
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                                                                                                                                                                                                                                                                              (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           93.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11 C; 5 G; 2 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 14.4;
Pred. No. 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length
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AAX78055/
ID AAX7.
XX AC AAX7.
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XX 19-AXXX
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                                                                                                                                                           RESULT 1998
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                                                                                                                                                                                                                                                            Query Match
Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     26-NOV-1991;
25-AUG-1992;
23-OCT-1992;
25-NOV-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Screening of anti-sense oligo:nucleotide(s) for ability to inhibit gene expression - comprises micro-injecting varying amounts of the anti-sense oligomer into a host cell and measuring expression of the target and
                                                                                                                                                                                                                                                                                                                      Sequence 18
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Antisense oligonucleotide; gene expression inhibitor; diagnosis; oligonucleotide-based therapy; ss.
 DTDST; human.
bone disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 6; Col 40; 104pp; English.
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                                             Rat DTDST
                                                                                                                              AAX78055 standard; DNA; 18 BP
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                                           PCR
                                                                                                                                                                                                                                                                                                                      BP;
                                                                                                                                                                                                                                                              Conservative
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expression vector; sulphate transporter; screening; cartilage disease; treatment; cell sulphate ion intake;
                                                                      (first entry)
                                          primer 1.
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92US-00935444.
92US-00965941.
92US-00976103.
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                                                                                                                                                                                                                                                                                                                   A; 0 C; 7 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                          93.8%;
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                                                                                                                                                                                                                                                                          Score 14.4;
Pred. No. 9.
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Best Local S
Matches 15
                                                                                                                                                This invention describes the construction of a novel vector for sulfate transporter expression containing a DNA sequence encoding a mammalian sulfate transporter (expression product of the DTDST gene) and containing no DNA sequence of 5 translation region of the mammalian sulfate transporter gene. The invention also describes; (A) a method for screening a human bone/carrilage disease treating agent including the steps: (1) transforming an animal cell with the above vector, (2) culturing the animal cell in the presence of a sample and (3) detecting the increase in the sulfate ion intake to the cell; (B) a drug preparation for the treatment of human bone/carrilage disease containing the above vector as the active component. The sulfate transporter genecontaining vector is high in expression efficiency. AAX78055-X78073 are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic.
                                                                                                                       Sequence 18 BP; 7 A; 6 C; 2 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                        Sulfate transporter gene expression vector
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       18-NOV-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      18-NOV-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     02-JUN-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   JP11146790-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Rattus sp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              drug preparation; rat; PCR primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 1999-378999/32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (SUMU ) SUMITOMO SEIYAKU KK
                             4788
17
                                                            15,
                                                                           Similarity
                           AGTTCTTTGGTTGGAA 4803
                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         97JP-00335157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      97JP-00335157
                                                                         0.3%;
                                                            0
                                                            Pred. No. 9.8
); Mismatches
                                                                                        Score 14.4;
                                                                           No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   88
                                                                           9.8e+02;
                                                                                        DB 1; Length 18;
                                                            0
                                                            Gaps
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RESULT 1999
AAX53842
acute asthma; allergy; asthma; impeded respiration; respiratory distress syndrome; pain; cystic fibrosis; pulmonary hypertension; pulmonary vasoconstriction; emphysema; chronic obstructive pulmonary disease; leukemia; lymphoma; car colon cancer; breast cancer; lung cancer; pancreatic cancer;
                                                                                                                                                                                                         Antisense oligonucleotide; multiple target; antisense treatment; impaired respiration; inflammation; lung disease; pulmonary vasoconstriction; inflammation; allergic rhinitis;
                                                                                                                                                                                                                                                                        Human adenosine A2a receptor antisense oligonucleotide fragment.
                                                                                                                                                                                                                                                                                                      05-JUL-1999
                                                                                                                                                                                                                                                                                                                                                                 AAX53842 standard; DNA; 18
                                                                                                                                                                                                                                                                                                                                   AAX53842;
                                                                                                                     hepatocellular carcinoma;
                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                     kidney
                                                                                                                                                                                                                                                                                                                                                                  뫄
                                                                                                                     cancer;
                                                                                                                      hepatic
                                                                                                                                                 carcinoma;
                                                                                                                      metastasis;
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25-MAR-1999

Synthetic

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RESULT 1995
AAT58755/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          밁
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                                    The sequences given in AATS8754-55 represent the 5' terminal sequences derived from an over expressing clone and the corresponding wild type sequence from the long form of human colony stimulating factor (HuCSF)-1 (LCSF). In the over expressing form the codons for the first six amino acids of LCSF were altered to those favoured in bacteria. This results in higher levels of production of both the full length LCSF protein and truncated versions of it (see also AAMM1072-86). The truncated proteins pref. have 3 amino acids deleted at the N-terminal end, and a variable number deleted from the C-terminal end. The truncated proteins have mol. wts. much closer to those found in naturally occurring CSF-1 dimers, and it is thought that natural CSF-1 may be C-terminally truncated. The novel proteins may be useful for overcoming immuno- suppression induced e.g. by Chemotherapy, bone marrow transplantation or diseases, e.g. ALIDS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               05-FEB-1985;
30-APR-1985;
14-JUN-1985;
18-JUL-1985;
                                                                                                                                                                                                                                                                                                                                                                Coyne MY,
Ladner MB,
                                                                                                                                                                                                                                                                           DNA encoding human colony-stimulating factor-1 N-terminal deletion mutants - opt. with C-terminal truncation(s), useful for treating immunosuppression caused by e.g. chemotherapy or bone marrow transplants.
                                                                                                                                                                                                                                                  Disclosure;
                                                                                                                                                                                                                                                                                                                                      WPI; 1996-517883/51.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        20-JUN-1986;
24-OCT-1986;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12-NOV-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           bone marrow transo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    5' fragment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAT58755 standard; DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     28-DEC-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US5573930-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Long form; short form; human colony stimulating factor-1; HuCSF-1; truncated protein; immunosuppression; chemotherapy; LCSF; SCSF;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 25-MAR-2003
20-MAR-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAT58755;
                                                                                                                                                                                                                                                                                                                                                                                                                                      27-NOV-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21-JAN-1986;
                                                                                                                                                                                                                                                                                                                                                                                                          (CETU ) CETUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             16-APR-1987;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           L6-APR-1987;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4345
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CCAGTGCCTCCTTGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CCAGTGCCTCGTTGAG
                                                                                                                                                                                                                                                                                                                                                               Halenbeck RF, Noble JA;
                                                                                                                                                                                                                                                  Col 57; 45pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                transplantation; AIDS; 88.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     from wild type CSF-1 clones.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (revised)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                          ONCOLOGY CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                 87US-00039657.
87US-00105261.
91US-00799039.
91US-00799411.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     86US-00821068.
86US-00876819.
86US-00923067.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              85US-00698359.
85US-00728834.
85US-00744924.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          87US-00039654.
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                                                                                                                                                                                                                                                                                                                                                                             Kawasaki ES,
                                                                                                                                                                                                                                                                                                                                                                             Martin GA
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Query Match

Sequence 18

BP; 4 A;

2 C; 9 G;

0 Other; DB 1;

Score 14.4; 3 T; 0 U;

Length

18;

13-JUL-1999 AAX36632;

(first entry)

AAX36632 standard; DNA; 18

ВÞ

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RESULT 1997
AAX36632/c
ID AAX3663
XX
AC AAX3663
XX
DT 13-JUL-
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' Matches 15; Conserv
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AAT76050
                                                                                                                                                                              Best Loc
Matches
                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                     A method for treating airway disease in a subject has been produced, which involves the topical administration of an essentially adenosine free antisense oligonucleotide (ON) to the airway epithelium of the subject. The present sequence is an antisense oligonucleotide HSA2ARECAS7 specific for the human A2a adenosine receptor. The method can be used to treat airway diseases such as cystic fibrosis, asthma, chronic obstructive pulmonary disease, bronchitis and o, tariway diseases characterised by an inflammatory response. By eliminating adenosine from the antisense ON, its liberation upon antisense degradation is prevented, thereby preventing adenosine-induced bronchoconstriction in patients with
                                                                                                                                                                                                                                  Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Treatment of airway diseases such as asthma - by topically applying adenosine-free antisense oligo:nucleotide to airway epithelium of
                                                                                                                                                                                                                                                           hyper-reactive airways
                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 5; Page 24; 71pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                      subject.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1997-051871/05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  06-JUN-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Nyce JW, Metzger WJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (UYEC-) UNIV EAST CAROLINA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       07-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             19-DEC-1996.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           chronic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Asthma; airway epithelium; adenosine free; cystic fibrosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             11-SEP-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAT76050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAT76050 standard; DNA; 18 BP
                                                                                                                                                                                         Local
                                                                                                                                                  3741 grecccececcceec 3756
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3388 GTCCTCCGACACCTCC 3403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    18
                                                                                                                                                                              l Similarity
15; Conserv
                                                                                                                          w
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         obstructive pulmonary disease; bronchitis; ss
                                                                                                                          GTGCCCGCTCCCCGGC 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GTACTCCGACACCTCC
                                                                                                                                                                                                                                BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       95US-00474497
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  96WO-US009306
                                                                                                                                                                                                                                  0
                                                                                                                                                                                                                              A; 11 C; 5 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                        93.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 receptor antisense oligonucleotide HSA2ARECAS7.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      93.8%;
                                                                                                                                                                              0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
                                                                                                                                                                            Score 14.4; DB 1;
Pred. No. 9.8e+02;
0; Mismatches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pred. No. 9.8e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
                                                                                                                                                                                                        DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1;
                                                                                                                                                                                                      Length 18;
                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                              0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ٥,
                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
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2004-031273/03

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RESULT 1993
ADP48903/c
ID ADP4890
XX ADP4890
XX ADP4890
XX PCR pri
XX Structur
KW Structur
KW primer;
XX Homo 8a
XX HOMO 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local S
Matches 13
This invention relates to a novel method for generating and detecting target nucleic acid sequences. Specifically, it refers to the use of a structure specific nuclease, alone or in combination with nucleic acid polymerase, especially the ones lacking 5' nuclease activity that can detect and measure target polymucleotides. The present invention describes using a probe with a signalling moiety that is inactivated unless hybridised to the target where upon the resulting double stranded duplex provides a suitable substrate for the structure specific nuclease and generation of the detectable signal. Accordingly, the method is useful for generating a signal that indicates the presence of a target
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to an enzymatic nucleic acid molecule which specifically cleaves RNA derived from hepatitis C virus (HCV), in which the binding arms of the enzymatic nucleic acid molecule comprises sequences complementary to any of the defined substrate sequences given in the specification. The nucleic acid molecule may be administered for the treatment of HCV infections, especially in combination with type I interferons. The present sequence represents a HCV DNAzyme substrate
                                                                                                                                                                                                                                                                                                                                                                                           Generating a signal indicative sequence in a sample comprises structure specific nuclease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Enzymatic nucleic acid molecules which specifically cleave RNA derived from hepatitis C virus (HCV), useful for the treatment of HCV infectio especially in combination with type I interferon therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 09-DEC-2002; 2002US-0431822P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             08-DEC-2003; 2003WO-US039199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        structure specific
primer; ss; human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADP48903
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADP48903 standard; DNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 1;
                                                                                                                                                                                                                                                                                                                                  Example 1; SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2004-468877/44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (NUST-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO2004053143-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PCR primer used to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           09-SEP-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2903
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AGACCAGCACATCCTC 2918
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQ ID NO 902; 198pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGACCAGCACCUCCUC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BP; 4 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                  ID NO 2; 66pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        nuclease; signalling moiety; detectable signal; PCR; 18S rRNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             amplify the human 18S rRNA gene SeqID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8 C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           w
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        G; 0 T; 2 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    <u>ب</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 14.4;
                                                                                                                                                                                                                                                                                                                                                                                                                          of the presence of a target nucleic incubating a sample, a probe, and a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
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Best Loc Matches

Local

Similarity

93.8%;

Score 14.4; Pred. No. 9.

.8e+02;

DB 1;

Length 18;

Indels

0,

Gaps

0

Conservative

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Mismatches

Query Match

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RESULT 1994
AAQ39301
ID AAQ3930
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Best Local
                                                           used in a method to detect a mutation in the glucocerebrosidase gene, corresponding to an insertion of a G nucleotide adjacent to base 57 of exon 2 (see also AAQ)3287 and AAQ)3304). The template DNA used was isolated from peripheral blood leukocytes. Glucocerebrosidase is an enzyme which is required for the lysosomal degradation of glycolipids (see also AAQ)3286). A deficiency of this enzyme leads to Gaucher disease, as in the absence of glucocerebrosidase, the extremely insoluble glucosylceramide (glucocerebroside) accumulates. The insertion of a G nucleotide adjacent to position 84 in the glucocere- brosidase cDNA has been characterised as a new Gaucher disease causing mutation. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Glucocerebrosidase;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Glucocerebrosidase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 17 BP; 3 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          nucleic acid given primer given in an
                                    corresponding is in exon 2,
                                                                                                                                                                                                                Disclosure; Page 66; 74pp; English
                                                                                                                                                                                                                                                               Screening method for new Gauche disease mutation -
                                                                                                                                                                                                                                                                                                                                                                                                                       01-APR-1993.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       glycolipid;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     25-MAR-2003
20-JUL-1993
Sequençe
                                                                                                                                                                                        The sequences given
                                                                                                                                                                                                                                                                                           WPI; 1993-117560/14.
                                                                                                                                                                                                                                                                                                                   Beutler E,
                                                                                                                                                                                                                                                                                                                                                                     27-SEP-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                               WO9306244-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Jewish; 1448C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAQ39301;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAQ39301 standard;
                                                                                                                                                                                                                                                                                                                                                                                            16-SEP-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            restriction
                                                                                                                                                                                                                                                                                                                                            (SCRI ) SCRIPPS RES INST
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                                                                                                                                                                                                                                                      nucleotide
 18
                                                                                                                                                                                                                                          <u>ب</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaucher d
BP;
                                                                                                                                                                                                                                                                                                                   Sorge JA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (revised)
(first entry)
                                    position of adjacent to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               polymerase
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                                                                                                                                                                                                                                                                                                                                                                                              92WO-US007840.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          in a sample. This oligonucleotide sequence exemplification of the invention.
                                                                                                                                                                                                                                                     .adjacent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             peripheral blood leukocyte; lysosomal degradation; disease; glucosylceramide; glucocerebroside; RFLP; tlength polymorphism; mutation; pseudogene; 1226G; merase chain reaction; PCR; primer; probe; ss.
                                                                                                                                                                                        in AAQ39288-303 are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            93.8%;
 6
C;
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                                  new Gaucher disease causing mutation. The of this mutation in the gluco- cerebrosidase gene to position 57. (Updated on 25-MAR-2003 to correc
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            primer
 4
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Pred. No. 9
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                                                                                                                                                                                                                                                     specified
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                                                                                                                                                                                        primers and probes which were
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 Other;
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                                                                                                                                                                                                                                                                                                                                                                                         RESULT 1991
ADI85657/c
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Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to an enzymatic nucleic acid molecule that specifically cleaves RNA derived from hepatitis B virus (HBV) and comprising one or more binding arms, without requiring the presence of a 2'-OH group within the molecule for activity. The nucleic acids are useful for treating hepatitis B virus infection, hepatitis, hepatocellular carcinoma, cirrhosis and liver failure, either alone or in combination with other therapies such as lamivudine and interferons. The nucleic acids are useful as diagnostic tools to examine genetic drift and mutations within diseased cells, for detecting the presence of HBV RNA in a cell, for the study of RNA and for down-regulating gene expression of target genes in bacterial, fungal, viral, plant or mammalian cells. This sequence represents an HBV RNA target sequence, used in the scope of the invention. Note: The sequence data for this patent is also available in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14-MAY-1992;
07-FEB-1994;
08-NOV-1999;
                          US2003125270-A1
                                                                                                                                                                                                    HCV DNAzyme substrate sequence #2903.
                                                                                                                                                                                                                                                          03-JUN-2004
                                                                                                                                                                                                                                                                                                                                                              ADI85657
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             electronic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Novel enzymatic nucleic acid molecule such as DNAzymes and inozymes specifically cleaving RNA derived from hepatitis B virus and comprisir one or more binding arms, useful for treating hepatitis and cirrhosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            18-MAR-2004
                                                                        Hepatitis C virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (DRAP/)
(BLAT/)
(MCSW/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure; SEQ ID NO 685; 122pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2004-247781/23.
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09-AUG-2000;
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                                                                                                                           enzymatic infection;
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BLATT L.
MCSWIGGEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
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MORRISSEY D.
                                                                                                                                                                                                                                                                                                                                                                   standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AGGCGGAGGAGCTGCT 568
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AGGAGGAGGAGCTGCT 2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          format from USPTO at seqdata.uspto.gov/sequence.html.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BP; 2 A; 9 C; 2 G; 0 T; 4 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2000US-00531025.
2000US-00636385.
2000US-00696347.
2001US-00877478.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
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                                                                                                                         nucleic
; type I
                                                                                                                                                                                                                                                          (first entry)
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99US-00436430.
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94US-00193627.
                                                                                                                                                                                                                                                                                                                                                                   RNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0.3%;
                                                                                                                      acid; RNA cleavage; hepatitis interferon; DNAzyme.
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                                                                                                                                                                                                                                                                                                                                                                   17
                                                                                                                                                                                                                                                                                                                                                                   ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 14.4;
Pred. No. 9e
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4; DB 1;
9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                      C virus; HCV;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         and comprising
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to an enzymatic nucleic acid molecule which specifically cleaves RNA derived from hepatitis C virus (HCV), in which the binding arms of the enzymatic nucleic acid molecule comprises sequences complementary to any of the defined substrate sequences given in the specification. The nucleic acid molecule may be administered for the treatment of HCV infections, especially in combination with type I interferons. The present sequence represents a HCV DNAzyme substrate
        Blatt L,
                                       (BLAT/)
(MCSW/)
(ROBE/)
(PAVC/)
                                                                                                                                       03-JUL-2003.
                                                                                                                                                            US2003125270-A1.
                                                                                                                                                                                Hepatitis C virus
                                                                                                                                                                                                                                   HCV DNAzyme substrate sequence #902.
                                                                                                                                                                                                                                                         03-JUN-2004
                                                                                                                                                                                                                                                                             ADI83656;
                                                                                                                                                                                                                                                                                                  ADI83656 standard; RNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 1; SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              especially in combination with type I interferon therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Enzymatic nucleic acid molecules which specifically cleave RNA derived from hepatitis C virus (HCV), useful for the treatment of HCV infections,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Blatt L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (BLAT/)
(MCSW/)
(ROBE/)
(PAVC/)
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                                                                                            18-DEC-2000; 2000US-00740332
                                                                                                                 18-DEC-2000; 2000US-00740332
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  18-DEC-2000; 2000US-00740332
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                                                                                                                                                                                                    enzymatic nucleic infection; type I
                                                                                                                                                                                                                                                                                                                                                                    4872 GCCTGTGCCAGGTTCC 4887
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                                       BLATT L.
MCSWIGGEN J.
ROBERTS E.
PAVCO P A.
                                                                                                                                                                                                                                                                                                                                                                                                 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ROBERTS E. PAVCO P A.
                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BLATT L.
                               MACEJACK D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MCSWIGGEN
                                                                                                                                                                                                                                                                                                                                                        GCCCGTGCCAGGTTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mcswiggen
        Mcswiggen J,
                                                                                                                                                                                                                                                                                                                                                                                                                                         BP; 4 A;
                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ID NO 2903; 198pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       200005-00740332
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                                                                                                                                                                                                                                                                                                                                                                                                         , 48° E6
33° 84°
                                                                                                                                                                                                                                                        entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                         5 C; 7 G;
                                                                                                                                                                                                     acid; RNA cleavage; hepatitis C virus; HCV;
interferon; DNAzyme.
                                                                                                                                                                                                                                                                                                  17
         Roberts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Roberts
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                                                                                                                                                                                                                                                                                                                                                                                                          Score 14.4; DB 1;
Pred. No. 9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                         0 T; 1 U;
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                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
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         Pavco
                                                                                                                                                                                                                                                                                                                                                                                                                                         0 Other;
         PA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PA,
         Macejack
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ADM59279/c
ID ADM5927
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                                                                                                                                                                                                                                                                                  Query Match
Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                            The present invention is based upon methods of treating inflammatory conditions in the intestinal tract of mammala using fibroblast growth factor (FGF)-CX and/or FCTRX(undefined) polypeptides and their encoding polynucleotides. The invention is useful for treating inflammatory pathology such as inflammatory bowel disease, inflammatory condition occurring in the colon or small intestine and Crohn's disease. The invention is also useful in gene therapy. The present sequence is human intestinal trefoil factor (ITP) amplifying RT-PCR primer. The primer is used in the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Promoting the growth of a population of cells, useful for treating inflammatory conditions, comprises contacting the at least one cell with a composition comprising FGFCX and/or FCTRX polypeptides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo
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Lichenstein HS, Peter
Shimkets RA, Yang M;
             Hepatitis B virus; HBV; ss; enzymatic nucleic acid; RNA cleavage; hepatitis B virus infection; hepatitis; hepatocellular carcinoma; cirrhosis; liver failure; lamivudine; interferon; genetic drift; virucide; hepatotropic; antiinflammatory; cytostatic.
                                                                                                                                                                                                                                                                                                                                      Sequence 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       16-NOV-2001; 2001US-00011364.
06-JUN-2002; 2002US-0386545P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US2004006015-A1
                                                                              Hepatitis B virus (HBV) RNA target sequence #1413.
                                                                                                         03-JUN-2004
                                                                                                                                    ADM59279
                                                                                                                                                             ADM59279 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (PRAY/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (LICH/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (BOLD/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16-DEC-2002; 2002US-00321962
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (MIHS)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (LARO/)
                                                                                                                                                                                                                                                         2684 TGACAGCCAAGGACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2004-081737/08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            sapiens
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15; Conserv
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PERNANDES E R.
JEFFERS M E.
LAROCHELLE W J.
LICHENSTEIN H S.
PETERSON J.
                                                                                                                                                                                                                               N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   32;
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                                                                                                                                                                                                                                TGCCAGCCAAGGACAG
                                                                                                                                                                                                                                                                                                                                      BP; 5 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQ ID NO 29; 153pp; English.
                                                                                                                                                                                                                                                                                  Conservative
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                                                                                                         (first
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                                                                                                                                                             RNA;
                                                                                                         entry)
                                                                                                                                                                                                                                                                                            0.3%;
                                                                                                                                                                                                                                                                                                                                      5 C; 6 G; 1 T; 0 U; 0 Other;
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n J, Prayaga SK,
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                                                                                                                                                              ВP
                                                                                                                                                                                                                                                                                 0
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Pred. No. 9e+02;
0; Mismatches 1; Indels
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C, Rittman B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Larochelle
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RESULT 1990
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ID ADMS855
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AC ADM5855
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DT 03-JUN-
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DE Hepatit
XW Hepatit
XW Hepatit
XW hepatit
XW hepatit
XW virucid
XX
OS Hepatit
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Best Local S
Matches 15
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07-FEB-1994; 94US-00193627.
08-NOV-1999; 99US-00436430.
20-MAR-2000; 2000US-00531025.
09-AUG-2000; 2000US-00636385.
24-OCT-2000; 2000US-00696347.
08-JUN-2001; 2001US-00877478.
                                               Hepatitis I
hepatitis I
cirrhosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                 combination with other therapies such as lamivudine and interferons. The nucleic acids are useful as diagnostic tools to examine genetic drift and mutations within diseased cells, for detecting the presence of HBV RNA in a cell, for the study of RNA and for down-regulating gene expression of target genes in bacterial, fungal, viral, plant or mammalian cells. This sequence represents an HBV RNA target sequence, used in the scope of the invention. Note: The sequence data for this patent is also available in electronic format from USPTO at seqdata.uspto.gov/sequence.html.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention relates to an enzymatic nucleic acid molecule that specifically cleaves RNA derived from hepatitis B virus (HBV) and comprising one or more binding arms, without requiring the presence 2'-OH group within the molecule for activity. The nucleic acids are useful for treating hepatitis B virus infection, hepatitis, hepatocellular carcinoma, cirrhosis and liver failure, either alone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Novel enzymatic nucleic acid molecule such as DNAzymes and inozymes specifically cleaving RNA derived from hepatitis B virus and comprione or more binding arms, useful for treating hepatitis and cirrhos
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (DRAP/)
(BLAT/)
(MCSW/)
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    Hepatitis
                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
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                                                                                                           Hepatitis
                                                                                                                                         03-JUN-2004
                                                                                                                                                                       ADM58551;
                                                                                                                                                                                                      ADM58551 standard;
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                                                                                                                                                                                                                                                                                                              553 AGGCGGAGGAGCTGCT 568
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) BLATT L.
) MCSWIGGEN J !
) MORRISSEY D.
                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                         17
                                                              B virus; HBV; ss; enzymatic nucleic acid; RNA cleavage; B virus infection; hepatitis; hepatocellular carcinoma;
    B virus.
                                 hepatotropic;
                                                                                                           B virus (HBV) RNA target sequence
                                               B virus infection; hepatitis; hepatocellular carcinoma liver failure; lamivudine; interferon; genetic drift;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Blatt L,
                                                                                                                                                                                                                                                                                                                                                                                                       BP; 2
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                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                       A; 8 C; 3 G; 0 T; 4 U;
                                                                                                                                                                                                    RNA;
                                                                                                                                                                                                                                                                                                                                                           93.8%;
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                                                                                                                                                                                                      17
                                 antiinflammatory; cytostatic.
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                                                                                                                                                                                                                                                                                                                                            0
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Pred. No. 96
                                                                                                                                                                                                                                                                                                                                            Mismatches
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                                                                                                                                                                                                                                                                                                                                                           9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                       0 Other;
                                                                                                                                                                                                                                                                                                                                                                         DB 1;
                                                                                                            #685.
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ADM54091
ID ADM1
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AC ADM1
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DE Huma
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                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 1987
                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to a nucleic acid molecule that down-regulates compression of Grb2-related with insert domain (GRID) gene, e.g. a comparison of Grb2-related with insert domain (GRID) gene, e.g. a comparison of Grb2-related with insert domain (GRID) gene, e.g. a comparison of Grb2-related with insert domain (GRID) gene, e.g. a comparison of Grb2-related with the insert domain of Grb2-related with the include are a mammalian cell including the novel nucleic acid molecule, reducing GRID activity in a comparison of the cell with the novel nucleic acid molecule, contacting the cell with the novel nucleic acid molecule, contacting the cell with the novel nucleic acid molecule, an expression contacting the cell with the novel nucleic acid molecule, an expression contacting the cell with the novel nucleic acid molecule, an expression contacting a nucleic acid sequences (encoding at least the novel nucleic acid molecule in a manner that allows its expression), a condition cell including the expression vector and an enzymatic nucleic acid molecule that cleaves RNA derived from a GRID gene. The nucleic acid molecule that cleaves RNA derived from a GRID gene. The nucleic acid molecule that cleaves RNA derived from a GRID gene. The nucleic acid molecule that cleaves RNA derived from a GRID gene. The nucleic acid molecule that cleaves RNA derived from a GRID gene. The nucleic acid molecule that cleaves RNA derived from a GRID gene. The nucleic acid molecule that cleaves RNA derived from a GRID gene. The nucleic acid molecule that cleaves RNA derived from a GRID gene. The nucleic acid molecule that cleaves RNA derived from a GRID gene. The nucleic acid molecule that cleaves RNA derived from a GRID gene. The nucleic acid molecule that cleaves RNA derived from a GRID gene. The nucleic acid molecule that cleaves RNA derived from a GRID gene. The nucleic acid molecule that cleaves RNA derived from a GRID gene by
                                                                                                                                                                                                                                                                                                                             Matches
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Best Local :
                  Human GRID mRNA substrate sequence #366.
                                                            03-JUN-2004
                                                                                                    ADM54091;
                                                                                                                                          ADM54091 standard;
                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 4; SEQ ID NO 503; 74pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New nucleic acid molecule that down-regulates expression of Grb2-related with insert domain (GRID) gene, useful for treating a condition associated with the level of GRID, e.g. tissue/graft rejection and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US2003134806-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; ss; GRID; Grb2-re
NCH ribozyme; G-cleaver
hairpin ribozyme; tissue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2003-829646/77.
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                                                                                                                                                                                                                                                                        1124 TCTTCCTCACCTGAAG 1139
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                                                                                                                                                                                                                                                                                                                          l Similarity
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HAMBLIN P A.
ELLIS J H.
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CARLOWITZ
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                                                                                                                                                                                                                                                                                                                                                                                                      BP; 5 A; 2 C; 6 G; 0 T; 4 U; 0 Other;
                                                                                                                                                                                                                                                                                                                          Conservative
                                                        (first entry)
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                                                                                                                                          mRNA; 17
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                                                                                                                                                                                                                                                                                                                                             93.8%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mcswiggen J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                sequence
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                                                                                                                                          ВP
                                                                                                                                                                                                                                                                                                                                           Score 14.4; DB Pred. No. 9e+02;
                                                                                                                                                                                                                                                                                                                          Mismatches
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                                                                                                                                                                                                                                                                                                                                                              DB 1;
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                                                                                                                                                                                                                                                                                                                                                              Length 17
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New nucleic acid molecule that down-regulates expression of Grb2-related with insert domain (GRID) gene, useful for treating a condition associated with the level of GRID, e.g. tissue/graft rejection and
Claim 4; SEQ ID NO 366; 74pp; English
                                                                                                                                                                      WPI; 2003-829646/77.
                                                                                                                                                                                                                    Jarvis T,
                                                                                                                                                                                                                                                                                                                 (JARV/)
(CARL/)
(MCSW/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17-JUL-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; ss; GRID; Grb2-related with insert domain; hammerhead ribozyme; NCH ribozyme; G-cleaver ribozyme; Zinzyme; DNAzyme; amberzyme; Inozyme; hairpin ribozyme; tissue rejection; graft rejection; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                 10-FEB-2000; 2000US-0181594P
                                                                                                                                                                                                                                                                                                                                                                                                                                                              23-FEB-2001; 2001US-00792818.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US2003134806-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                             (HAMB/)
                                                                                                                                                                                                                                                                                     ) JARVIS T.
) CARLOWITZ I V.
) MCSWIGGEN J.
) HAMBLIN P A.
                                                                                                                                                                                                                                                                    ELLIS J H.
                                                                                                                                                                                                                 Carlowitz IV,
                                                                                                                                                                                                                 Mcswiggen
                                                                                                                                                                                                                 J,
                                                                                                                                                                                                                    Hamblin
                                                                                                                                                                                                                    PA,
                                                                                                                                                                                                                    Ellis
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The invention relates to a nucleic acid molecule that down-regulates CC expression of Grb2-related with insert domain (GRID) gene, e.g. a. CC hammerhead ribozyme, NCH ribozyme, G-Cleaver ribozyme, Zinzyme, DNAzyme, CC amberzyme, Inozyme or hairpin ribozyme. Also include are a mammalian cell including the novel nucleic acid molecule, reducing GRID activity in a CC cell by contacting the cell with the novel nucleic acid molecule, cell with the level of GRID (c.g. tissue/graft rejection or leukaemia) by contacting the cell with the novel nucleic acid molecule, cleaving RNA of a GRID gene by CC contacting the cell with the novel nucleic acid molecule, an expression CC vector comprising a nucleic acid sequences (encoding at least the novel nucleic acid molecule in a manner that allows its expression), a ccid molecule in a manner that allows its expression), a caid molecule that cleaves RNA derived from a GRID gene. The nucleic acid molecule that cleaves RNA derived from a GRID gene. The nucleic acid molecule that cleaves RNA derived from a GRID gene. The nucleic acid molecule that cleaves RNA derived from a GRID gene. The nucleic acid molecule that cleaves RNA derived from a GRID gene. The nucleic acid molecule that cleaves RNA derived from a GRID gene. The nucleic acid molecule that cleaves RNA derived from a GRID gene that the level of GRID, e.g. tissue/graft rejection and leukaemia. The present sequence is ccompared to the invention. Query Match Best Local S Matches 15 Sequence 17 4912 CCATCACCAGCCACAG 15; Similarity BP; Conservative Ç Þ 0.3%; 9 C; 3 4927 G; 0 0 Pred. No. 9e+1 0; Mismatches Score 14.4; T; 0 U; 0 Other; 9e+02; DB 1; 1, Length 17; Indels 0, Gaps 0

acid ۳. 8

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                                                                RESULT 1988
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                                03-JUN-2004
                    Human ITF amplifying sense RT-PCR primer.
                                          ADM57668;
                                                     ADM57668 standard;
                               (first
                               entry)
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                                                                                16
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Fibroblast

inflammation; Crohn's disease;
reverse transcription; primer;

Fibroblast growth factor-CX; FGF-CX; FCTRX; inflammatory bowel disease; inflammation; Crohn's disease; gene therapy; human; RT-PCR;

gene therapy;

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ADM54208
ID ADM5
XX
ADM54090
ID ADMS
XX
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                                                                                                                                                                                                                   RESULT 1985
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Best Local (
                                                                                                                                                         Matches
                                                                                                                                                                                                                                                        treating a patient having a condition associated with the level of GRID (e.g. tissue/graft rejection or leukaemia) by contacting the cell with the novel nucleic acid molecule, cleaving RNA of a GRID gene by contacting the cell with the novel nucleic acid molecule, an expression vector comprising a nucleic acid sequences (encoding at least the novel nucleic acid molecule in a manner that allows its expression), a mammalian cell including the expression vector and an enzymatic nucleic acid molecule that cleaves RNA derived from a GRID gene. The nucleic acid molecule is useful for treating a condition associated with the level of GRID, e.g. tissue/graft rejection and leukaemia. The present sequence is
                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to a nucleic acid molecule that down-regulates expression of Grb2-related with insert domain (GRID) gene, e.g. a hammerhead ribozyme, NCH ribozyme, G-cleaver ribozyme, Zinzyme, DNAzyme, amberzyme, Inozyme or hairpin ribozyme. Also include are a mammalian cell including the novel nucleic acid molecule, reducing GRID activity in a cell by contacting the cell with the novel nucleic acid molecule,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human; ss; GRID; Grb2-related with insert domain; hammerhead ribozyme; NCH ribozyme; G-cleaver ribozyme; Zinzyme; DNAzyme; amberzyme; Inozyme; hairpin ribozyme; tissue rejection; graft rejection; leukaemia.
                                                                                                                                                                                                                 Sequence 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human GRID mRNA substrate sequence #483.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADM54208 standard; mRNA;
                ADM54090 standard; mRNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 4; SEQ ID NO 483; 74pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              associated with the level
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New nucleic acid molecule
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2003-829646/77.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Jarvis T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (HAMB/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10-FEB-2000; 2000US-0181594P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (JARV/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CARL/)
                                                                                                                                                                                                                                              target
                                                                                                                         883
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ) JARVIS T.
) CARLOWITZ I V.
) MCSWIGGEN J.
) HAMBLIN P A.
) ELLIS J H.
                                                                                                                                                                    Similarity
                                                                                                                         AGCTGCCCCCAAGAAA 898
                                                                                                                                                                                                                                                region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Carlowitz
                                                                                                                                                                                                                   вP;
                                                                                                                                                      0.3%;
ilarity 87.5%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                 7 A;
                                                                                                                                                                                                                                                for the enzymatic nucleic acids of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (GRID)
                                                                                                                                                                                                                 5 C; 4 G;
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                                                                                            16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         that down-regulates expression of Grb2-related gene, useful for treating a condition of GRID, e.g. tissue/graft rejection and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mcswiggen
                 ₽₽
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                                                                                                                                                                    Score 14.4; DB 1; Length 17; Pred. No. 9e+02;
                                                                                                                                                                                                                 0 T; 1 U;
                                                                                                                                                         Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Hamblin
                                                                                                                                                                                                                   0 Other;
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                                                                                                                                                       Indels
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ADM54228/c
ID ADM542
XX
AC ADM542
XX
AC ADM542
XX
DT 03-JUN

ADM54228;

ADM54228 standard; mRNA; 17

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03-JUN-2004

(first entry)

밁 S

N

CCACCACCAGCCACAG 17

4912 CCATCACCAGCCACAG 4927

15;

Conservative

0

Mismatches

0

Gaps

0

RESULT 1986

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The invention relates to a nucleic acid molecule that down-regulates compression of Grb2-related with insert domain (GRID) gene, e.g. a comparison of Grb2-related with insert domain (GRID) gene, e.g. a comparison of Grb2-related with insert domain (GRID) gene, e.g. a comparison of Grb2-related with insert domain (GRID) gene, DNAyme, CC amberzyme, Inozyme or hairpin ribozyme. Also include are a mammalian cell cincluding the novel nucleic acid molecule, reducing GRID activity in a conclusion associated with the level of GRID cell by contacting the cell with the novel nucleic acid molecule, cleaving RNA of a GRID gene by contacting the cell with the novel nucleic acid molecule, an expression contacting the cell with the novel nucleic acid molecule, an expression contacting the cell with the novel nucleic acid molecule, an expression contacting the cell in a manner that allows its expression), a contacting the cell including the expression vector and an enzymatic nucleic acid molecule is useful for treating a condition associated with the level of GRID, e.g. tissue/graft rejection and leukaemia. The present sequence is carget region for the enzymatic nucleic acids of the invention.
Query Match
Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (JARV/) JARVIS T.
(CARL/) CARLOWITZ I V
(MCSW/) MCSWIGGEN J.
(HAMB/) HAMBLIN P A.
(ELLI/) ELLIS J H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New nucleic acid molecule that down-regulates expression of Grb2-related with insert domain (GRID) gene, useful for treating a condition associated with the level of GRID, e.g. tissue/graft rejection and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; 88; GRID; Grb2-related with insert domain; hammerhead ribozyme; NCH ribozyme; G-cleaver ribozyme; Zinzyme; DNAzyme; amberzyme; Inozyme; hairpin ribozyme; tissue rejection; graft rejection; leukaemia.
                                                                    Sequence 17
                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 4; SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2003-829646/77.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Jarvis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   23-FEB-2001; 2001US-00792818
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                leukemia.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADM54090;
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                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Carlowitz IV,
                                                                     BP; 6 A; 9 C; 2 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   substrate sequence
                                                                                                                                                                                                                                                                                                                                                                                                                              NO 365; 74pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ۲V.
                0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mcswiggen J,
                  Score 14.4
Pred. No.
                                 14.4;
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                    9e+02;
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                                 DB 1;
                                 Length 17;
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ACC54002
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Best Local S
Matches 15
                                                  Matches
                                                              Query Match
Best Local
                                                                                                              invention relates to these sequences or sequences having at least 80% identity to them, and polypeptides encoded by the sequences or polypeptides having 80% identity to the polypeptides encoded by the sequences or polypeptides having 80% identity to the polypeptide sequences. The invention is used to diagnose or treat viral disease or disease characterized by development of tumour cells or cellular decemparation.
                                                                                                                                                                                                                                Claim
                                                                                                                                                                                                                                                     New nucleic acid sequences associated with tumor suppression, a apoptosis or virus resistance are useful to diagnose and treat disease, development of tumor cells and cell degeneration.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACC54002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    dyslipidaemia, osteoarthritis, gallstones and sleep apnoea, and disorders related to ROS defence, such as diabetes mellitus, neurodegenerative disorders and cancer, e.g. cancers of the reproductive organs, and others, in cells, cell masses, organs and/or subjects (all claimed)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      and treatment of diseases and disorders related to body
and thermogenesis, for example metabolic disease such at
related disorders such as an eating disorder, cachexia,
mellitus, hypertension, coronary heart disease, hypercho
                                                                                                   Sequence
                                                                                                                                                                                                        This
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ss; tumour suppressor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human tumour
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           27-JUN-2003
                                                                                                                                                                                                                                                                                                                                   Tuijnder
                                                                                                                                                                                                                                                                                                                                                                                    20-JUN-2001; 2001FR-00008139
                                                                                                                                                                                                                                                                                                                                                                                                             20-JUN-2001; 2001FR-00008139
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cellular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                              (MOLE-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity
              2286 GATCTGCCTACCTGGG
                                                                                                                                                                                                    sequence represents an isolated nucleic acid sequence associated
                                                                                                                                                                                                                                                                                                           2003-250498/25
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                                                 1 Similarity
15; Conserv
                                                                                                                                                                                                                                                                                                                                                            MOLECULAR
                                                                                                    17
                                                                                                                                                                                                                              Page
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 degeneration.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GGACGGTGGACGGCCA 259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              17 BP; 2 A; 7 C; 4 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                  Telerman
                                                                                                   BP; 2
                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 suppressor sequence #2769.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first
                                                                                                                                                                                                                             679; 798pp; French.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             of diseases and disorders related to body weight
                                                                                                A; 7 C; 5 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                            ENGINES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           apoptosis; virus resistance; diagnosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DNA;
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                                                           93.
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                                                                                                                                                                                                                                                                                                                                  Α,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          antitumour; cytostatic; tumour suppression;
                                                             .88;
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16
                       2301
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                                                             Score 14.4;
Pred. No. 96
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 14.4;
Pred. No. 9
                                                                                                                                                                                                                                                                                                                                                            SA.
                                                  Mismatches
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9e+02;
                                                             9e+02;
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                                               Indels
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                                                 0
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                                                                                                                                                                                                                                                                               regression,
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                                              Gaps
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RESULT 1983
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                                                                                                                                                                                                                           The invention relates to a nucleic acid molecule that down-regulates compression of Grb2-related with insert domain (GRID) gene, e.g. a hammenhead ribozyme, NCH ribozyme, G-cleaver ribozyme, Zinzyme, DNZyme, CC hammenhead ribozyme or hairpin ribozyme. Also include are a mammalian cell including the novel nucleic acid molecule, reducing GRID activity in a cell by contacting the cell with the novel nucleic acid molecule. Treating a patient having a condition associated with the level of GRID (e.g. tissue/graft rejection or leukaemia) by contacting the cell with the novel nucleic acid molecule, cleaving RNA of a GRID gene by contacting the cell with the novel nucleic acid molecule, an expression vector comprising a nucleic acid sequences (encoding at least the novel nucleic acid molecule in a manner that allows its expression), a condition acid molecule that cleaves RNA derived from a GRID gene. The nucleic acid molecule that cleaves RNA derived from a GRID gene. The nucleic acid molecule is useful for treating a condition associated with the level of GRID, e.g. tissue/graft rejection and leukaemia. The present sequence is a target region for the enzymatic nucleic acids of the invention.
                                                                                            Matches
                                                                                                                                         Query Match
                                                                                                                                                                                        Sequence 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New nucleic acid molecule that down-regulates expression of Grb2-related with insert domain (GRID) gene, useful for treating a condition associated with the level of GRID, e.g. tissue/graft rejection and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Jarvis T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADM54206;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim
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(MCSW/)
(HAMB/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NCH ribozyme;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            leukemia.
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                                                                                                                     Local
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N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ) MCSWIGGEN J.
) HAMBLIN P A.
) ELLIS J H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 JARVIS T. CARLOWITZ
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                                                                                                                  Similarity
                                          GAGCTGCCCCAAGAA 897
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  mRNA substrate sequence
                                                                                                                                                                                        BP; 6 A;
                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ID NO 481; 74pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Grb2-related with insert domain; hammerhead ribozyme;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               entry)
                                                                                                             0.3%;
                                                                                                                                                                                      5 C; 5 G; 0 T; 1 U; 0 Other;
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                                                                                    Pred. No. 9e+0
                                                                                                             Score 14.4; DB 1;
Pred. No. 9e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    rejection; leukaemia.
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                                                                                                                                    Length
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RESULT 1984

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Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          in the phenomena of tumour suppression, tumour reversion, apoptosis and/or resistance to viruses. The invention may be useful for the development of compounds with a cytostatic, virucide, neuroprotective, nootropic or neuroleptic activity. The DNA sequences may be useful as probes and primers for detecting, indentifying, quantifying and/or amplifying nucleic acid, for example as one component of a gene chip, in vitro as antisense reagents and for production of recombinant polypeptides. The invention may therefore be useful for preparation of pharmaceuticals for prevention and/or treatment of viral diseases that are characterised by development of tumours or cell degeneration, specifically cancer but also Alzheimer's disease and schizophrenia. The present sequence is that of a nucleic acid sequence of the invention. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New isolated nucleic acid, useful for treating viral diseases associated with tumors and cell degeneration, also related polypeptides, antibodies and transfected cells.
                                                                                                                  New isolated nucleic acid, useful for treating viral diseases with tumors and cell degeneration, also related polypeptides,
                                                                                                                                                                                                                                                                                                                                                                                         17-SEP-2001; 2001FR-00011980
                                                                                                                                                                                                                                                                                                                                                                                                                                                17-SEP-2002; 2002WO-IB004523
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              27-MAR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       primer; PCR; gene chip; antisense; viral
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human tumour suppression/reversion-related DNA sequence SeqID4483.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    15-APR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADI51980 standard; DNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This invention relates to novel isolated nucleic acid sequences involved
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure; SEQ ID NO 2293; 30pp; French
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2003-313354/30
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                                                                                         transfected cells.
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                                                                                                                                                                                                            2003-313354/30.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        degeneration;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          l Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            suppression; tumour reversion; apoptosis; virus
                                                                                                                                                                                                                                                                                                                              MOLECULAR ENGINES LAB
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          B₽;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                virucide; neuroprotective;
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                                                                                                                                                                                                                                                                   Amson R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                93.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           cancer; Alzheimer's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             7 C;
                                                                                                                                                                                                                                                                   Tuijnder M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                H
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     disease; schizophrenia; ds; human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    nootropic; neuroleptic; probe;
il disease; tumour;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9e+02;
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in the phenomena of tumour suppression, tumour reversion, apoptosis cand/or resistance to viruses. The invention may be useful for the celebrate of compounds with a cytostatic, virucide, neuroprotective, notropic or neuroleptic activity. The DNA sequences may be useful as probes and primers for detecting, indentifying, quantifying and/or amplifying nucleic acid, for example as one component of a gene chip, in vitro as antisense reagents and for production of recombinant of pharmaceuticals for prevention may therefore be useful for preparation of pharmaceuticals for prevention and/or treatment of viral diseases that are characterised by development of tumours or cell degeneration. The specifically cancer but also Alzheimer's disease and schizophrenia. The present sequence but also Alzheimer's disease and schizophrenia. The specification, but was obtained in electronic format directly from WIPO specification, but was obtained in electronic format directly from WIPO
Sequence 17 BP; 1 A; 8 C; 1 G; 7 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       This invention
                                                          ftp.wipo.int/pub/publishedpct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       relates to novel isolated nucleic acid sequences involved
           0 Other;
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y from WIPO
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Query Match
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                                       Matches
                   1598 AGAGAAGGAGAAGATC 1613
16
                                      15;
                                               Similarity
                                       Conservative
                                               93.8%;
                                      0,
                                                Score 14.4; DB 1;
Pred. No. 9e+02;
                                      Mismatches
                                                          Length 17;
                                        Indels
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                                        Gaps
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RESULT 1981
ACC57606/c
                                                                                                   Human MAP kinase-interacting kinase Mnk2b gene reverse
                                                                                                         28-JUL-2003
                                                                                                                    ACC57606 standard;
                                                                                                         (first entry)
                                                                                                                    DNA;
                                                                                                                    17
                                                                                                                    ВP
                                                                                                   primer
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Human; MAP kinase-interacting kinase 2b; Mnk2b; enzyme; anorectic; antidiabetic; antipyretic; hypotensive; cardiant; antilipaemic; antiarthritic; litholytic; hepatotropic; gene therapy; PCR; primer; ss. Homo sapiens

WO2003037362-A2

08-MAY-2003

29-OCT-2002; 2002WO-EP012075

17-MAY-2002; 29-OCT-2001; 2001EP-00125812. 2002EP-00011073.

(DEVE-) DEVELOGEN ENTWICKLUNGSBIOLOGISCHE FORSCH.

Steuernagel Rudolph D, Belgore Eulenberg . ~ Broenner G, ŝ Ciossek 'n Rudolph

WPI; 2003-430470/40

New pharmaceutical composition having a MAP kinase interacting kinase nucleic acid or polypeptide, useful for diagnosing, preventing and/or treating disorders related to weight-regulation and thermogenesis.

Example 9 Page 67; 120pp; English.

i.e. adipose and muscle tissue. It was upregulated during human adipocyte differentiation. The invention relates to Mnk proteins, and the nucleic acids encoding them, and their use in the diagnosis, study, prevention The present sequence is a reverse primer for the mouse MAP kinase-interacting kinase 2b (Mnk2b) gene. It was used in a Taqman analysis of Mnk2 expression. Mnk2b was expressed in all tissues examined, with highest expression levels in tissues relevant for metabolic disorders, 얁

Disclosure;

SEQ

ID NO

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ADF63950
ID ADF6
 SXAXAXBXBXXXX
                                                                                                                                                                                                                                                                                                                     XAXFXBXBXBXBXFXFXFXFXFXBXSSSSSSSSSSSXSX
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ADF63949
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Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                   polynucleotide of the invention demonstrates cytostatic activity and may be useful for preparing a composition for treating or preventing a disorder associated with decreased or increased expression or activity of PCCP1 (prostate cancer candidate protein 1), such as a tumour, as well as during gene therapy and vaccine production procedures. The current sequence is that of the human PCCP1-related DNA fragment SEQ ID 8-directed probe of the invention. Note: The current sequence is not shown
                                   chromatin organisation modifier; CHROMO domain; cytostatic; PCCP1; prostate cancer candidate protein 1; tumour; gene therapy; vaccine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New prostate cancer candidate protein 1 (PCCP1), useful for proposition for treating or preventing a disorder associated decreased or increased expression or activity of PCCP1 e.g.,
                                                                            Human
                                                                                                     12-FEB-2004
                                                                                                                             ADF63949;
                                                                                                                                                    ADF63949 standard;
                                                                                                                                                                                                                                                                                                                     Sequence 17 BP; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to a novel isolated nucleic acid that encodes protein with a chromatin organisation modifier (CHROMO) domain. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Guo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            22-NOV-2002; 2002WO-US037506
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         prostate cancer candidate protein
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             human; ss; probe.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human PCCP1 DNA fragment SEQ ID 8-directed probe -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         12-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADF63950 standard; DNA; 17
                                                                                                                                                                                                                                          4155
                                                                          PCCP1 DNA fragment SEQ
                                                                                                                                                                                                                                                                                                                                                       the
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                                                                                                                                                                                                                                                                     15;
                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2; SEQ ID NO 1854; 164pp; English
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                                                                                                                                                                                                                                                                                                                                                         specification per
                                                                                                                                                                                                                                                                   Conservative
                                                                                                   (first entry)
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                                                                                                                                                                                                                                                                                                                    P
                                                                                                                                                     DNA; 17
                                                                                                                                                                                                                                                                              93.8%;
                                                                                                                                                                                                                                                                                                                    8 C; 4 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                         invention. Not
                                                                                                                                                                                                                   16
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                                                                                                                                                                                                                                                                   0;
                                                                            ID 8-directed
                                                                                                                                                                                                                                                                               Score 14.4;
Pred. No. 9e
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                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CHROMO domain; cytostatic; PCCP1; n 1; tumour; gene therapy; vaccine;
                                                                                                                                                                                                                                                                                                                                                         was retrieved from
                                                                                                                                                                                                                                                                               4; DB 1;
9e+02;
                                                                          probe -
                                                                                                                                                                                                                                                                   1;
                                                                                                                                                                                                                                                                                           Length 17;
                                   therapy; vaccine;
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                                                                            ID 1853.
                                                                                                                                                                                                                                                                                                                                                         the WipoWeb
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ADI49790/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                                     cytostatic; v
primer; PCR; cell degeneral
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to a novel isolated nucleic acid that encodes a protein with a chromatin organisation modifier (CHROMO) domain. The polynucleotide of the invention demonstrates cytostatic activity and may be useful for preparing a composition for treating or preventing a disorder associated with decreased or increased expression or activity of PCCP1 (prostate cancer candidate protein 1), such as a tumour, as well as during gene therapy and vaccine production procedures. The current sequence is that of the human PCCP1-related DNA fragment SEQ ID 8-directed probe of the invention. Note: The current sequence is not shown
                                                                                                                                                                                                                  tumour suppression; tumour reversion; apoptosis; virus resistance;
cytostatic; virucide; neuroprotective; nootropic; neuroleptic; probe;
primer; PCR; gene chip; antisense; viral disease; tumour;
                                                                                             17-SEP-2002; 2002WO-IB004523.
                                                                                                                                                                                                                                                                         Human tumour
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New prostate cancer candidate protein 1 (PCCP1), useful for preparing composition for treating or preventing a disorder associated with decreased or increased expression or activity of PCCP1 e.g., tumor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI;
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                                                                  17-SEP-2001;
                                                                                                                         27-MAR-2003.
                                                                                                                                                  WO2003025177-A2
                                                                                                                                                                              Homo
                                                                                                                                                                                                                                                                                                  15-APR-2004
                                                                                                                                                                                                                                                                                                                              ADI49790;
                                                                                                                                                                                                                                                                                                                                                       ADI49790 standard; DNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          within the specification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 2; SEQ ID NO 1853; 164pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         10-DEC-2001; 2001US-0339764P
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                                       (MOLE-) MOLECULAR ENGINES LAB
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                                                                                                                                                                           sapiens.
                                                                                                                                                                                                      degeneration;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                        CCTGCTGGCTGCTCCT 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BP; 0 A; 7 C; 5 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                  2001FR-00011980
                                                                                                                                                                                                                                                                       suppression/reversion-related DNA sequence
                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                         cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           se but was retrieved
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pred. No. 9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                         disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1;
                                                                                                                                                                                                        schizophrenia; ds; human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            the WipoWeb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          17;
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Matches 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  inozymes, zinzymes, amberzymes, and G-cleaver ribozymes. Also disclosed are nucleic acid decoy molecules and aptamers that bind to HBV reverse transcriptase primer sequences, as well as oligonucleotides that specifically bind the Enhancer I region of HBV DNA. The nucleic acids may be used to modulate the expression of HBV penes and HBV viral replication. Also disclosed is a method for screening
                                                                          ACC68806), which are associated with tumour suppression, tumour reversion, apoptosis and virus resistance. The oligonucleotides are useful as (1) as probes and primers for detecting, identifying quantifying and/or amplifying nucleic acid, e.g. as one component of a gene chip; in viro as (anti)sense reagents; and (2) for production of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; murine; tumour suppression; tumour reversion; apoptosis; virus resistance; viral disease; tumour; cell degeneration; cancer; Alzheimer's disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 17
                        recombinant polypeptides. The oligonucleotides are useful for preparation of pharmaceuticals for prevention and/or treatment of viral diseases that
                                                                                                                                                                                                                                                                                                                                                                               New isolated nucleic acid, useful for treating viral diseases associated with tumors and cell degeneration, also related polypeptides, antibodies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO2003025176-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Murine oligonucleotide associated with tumour supression, SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-JUL-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACC66767 standard;
                                                                                                                                                                                                                                The present invention relates to murine oligonucleotides (ACC62754-
                                                                                                                                                                                                                                                                                              Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        17-SEP-2001; 2001FR-00011979
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   17-SEP-2002; 2002WO-IB004210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             schizophrenia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       and enzymatic nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (MOLE-) MOLECULAR ENGINES LAB
characterised by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4872 GCCTGTGCCAGGTTCC
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                                                                                                                                                                                                                                                                                           Page 500; 738pp; French.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
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development of tumours
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   acids such as hammerhead ribozymes,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Tuijnder
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4887
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Pred. No. 9e+0
0; Mismatches
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Matches 15
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Best Local Similarity
Matches 15; Conserv
                                                                                                                             The present invention relates to murine oligonucleotides (ACC62754-ACC68806), which are associated with tumour suppression, tumour reversion, apoptosis and virus resistance. The oligonucleotides are useful as (1) as probes and primers for detecting, identifying, quantifying and/or amplifying nucleic acid, e.g. as one component of gene chip; in vitro as (anti)sense reagents; and (2) for production or recombinant polypeptides. The oligonucleotides are useful for prepara of pharmaceuticals for prevention and/or treatment of viral diseases are characterised by development of tumours or cell degeneration, specifically cancer but also Alzheimer's disease and schizophrenia
                                                                                                                                                                                                                                                                                                            New isolated nucleic acid, useful for treating viral diseases associated with tumors and cell degeneration, also related polypeptides, antibodies and transfected cells.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; tumour suppression; tumour reversion; apoptosis; virus resista
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viral disease; tumour; cell degenerat
                                                                                                      Sequence 17
                                                                                                                                                                                                                                                                                    Disclosure; Page 594; 738pp; French
                                                                                                                                                                                                                                                                                                                                                                                               Telerman A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                     17-SEP-2001; 2001FR-00011979
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               17-SEP-2002; 2002WO-IB004210
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        schizophrenia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Murine oligonucleotide associated with tumour supression,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACC67574;
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                         4771 GATCTACCTGGCTTCT 4786
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                                                                 Similarity
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GATCTACCTGTCTTCT
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                                                    Conservative
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                                                                0.3%;
                                                                                                        5 C; 3 G; 7 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                               Tuijnder M;
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Pred.
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Pred. No. 96
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                                                                14.4; DB 1;
No. 9e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     virus resistance;
; Alzheimer's dise
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The present invention relates to nucleic acid molecules which modulate the synthesis, expression and/or stability of Hepatitis C virus (HCV) or Hepatitis B virus (HEV) NAN. The nucleic acid molecules include antisense and enzymatic nucleic acids such as hammerhead ribozymes, DNAzymes, incorpmes, zinzymes, amberzymes, and Gr-Gleaver ribozymes. Also disclosed are nucleic acid decoy molecules and aptamers that bind to HBV reverse transcriptase and/or HBV reverse transcriptase primer sequences, as well as oligonucleotides that specifically bind the Enhancer I region of HBV DNA. The nucleic acids may be used to modulate the expression of HBV genes and HBV viral replication. Also disclosed is a method for screening compounds and/or potential therapies directed against HBV, and compounds that modulate the expression and/or replication of HCV. The compounds and methods of the invention are useful for the treatment of degenerative and disease states related to HBV and HCV infection, replication and gene
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08-JUN-2001;
24-OCT-2001;
05-DEC-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RNA stability; RNA expression; RNA synthesis; antisense; enzymatic nucleic acid; hammerhead ribozyme; DNAzyme; inozyme; zin amberzyme; G-cleaver ribozyme; decoy molecule; aptamez; anberzyme; G-cleaver ribozyme; decoy molecule; aptamez; HBV reverse transcriptase; Enhancer I region; viral replication; degenerative; disease state; HBV infection; HCV infection; cirrhos liver failure; hepatocellular carcinoma; hepatotropic; cytostatic; virucide; antiinflammatory; substrate; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Novel compound useful for hepatocellular carcinoma,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (MACE/)
(MCSW/)
(MORR/)
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                                                                                                                                                                                                                                                                                                                                                                                              Example 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DRAPER K.
ROBERTS E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MACEJAK D.
MCSWIGGEN .
MORRISSEY !
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      acid molecule;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AGGCGGAGGAGCTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Macejak D,
Roberts E;
                                                                                                                                                                                                                                                                                                                                                                                            Page
                                                                                                                                                                                                                                                                                                            invention relates to us, expression and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; 2001US-00817879.
; 2001US-00877478.
; 2001US-0296876P.
; 2001US-0335059P.
; 2001US-0337055P.
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                                                                                                                                                                                                                                                                                                                                                                                         164; 387pp;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        04
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Hepatitis C virus; HCV; Hepatitis B virus; HBV;
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or condition
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                                                                                                                                                                                                                                                                                                                                                                                            English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cirrhosis, liver failure
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Morrissey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      associated with hepatitis C virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              'n
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pavco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cirrhosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Lee
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Best Local S
Matches 15
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08-JUN-2001;
08-JUN-2001;
24-OCT-2001;
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(MACE/)
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                                                                                                                                                                                                                                                                                                                                                                                                     RNA stability; RNA expression; RNA synthesis; antisense; enzymatic nucleic acid; hammerhead ribozyme; DNAzyme; in
                                                                                                                                                                                                                                                                                                                                                                                                                                          ACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                           23-SEP-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  expression such as cirrhosis, liver failure, and hepatocellular carcinoma. The present sequence represents a substrate for one cribozyme, inozyme, G-cleaver, zinzyme, DNAzyme or amberzyme sequencies of the present invention
                                                                                                          Draper
                                                                                                                                             (LEEP/)
(DRAP/)
                                                                                                                                                               (MORR/
                                                                                                                                                                                                                              05-DEC-2001;
                                                                                                                                                                                                                                                                                   26-MAR-2002;
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                                                                                                                                                                                                                                                                                                                      WO200281494-A1
                                                                                                                                                                                                                                                                                                                                        Hepatitis C virus.
                                                                                                                                                                                                                                                                                                                                                          virucide;
                                                                                                                                                                                                                                                                                                                                                                                                                       Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis
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                                                                                                                                                                                 (MCSW/)
                                                                                                                                                                                                           (RIBO-)
                                                                                                                                    ROBE/)
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MORRISSEY
PAVCO P.
                                                                                                                                   ROBERTS
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                                                                                                                                                                                          MACEJAK D
                                                                                                                                                                                                            RIBOZYME
                                                                                                                                             DRAPER
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AGGCGGAGGAGCTGCT
                                                                                                         Macejak D,
Roberts E;
                                                                                                                                                                                                                                                                                                                                                          antiinflammatory; substrate; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                          strand
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                                                                                                                                                                                                                                      ; 2001US-00817879.
; 2001US-00877478.
; 2001US-0296876P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BP; 2
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                                                                                                                                                                                                                             2001US-0337055P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RNA; 17
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                                                                                                                 Mcswiggen
                                                                                                                                                                                                            INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                          substrate
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Pred. No. 9e
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                                                                                                                 Morrissey
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                                                                                                                 Pavco
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                                                                                                                                                                                                                                                                                                                                                                                                      inozyme;
                                                                                                                                                                                                                                                                                                                                                                  cytostatic;
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                                                                                                                                                                                                                                                                                                                                                                                                                       W
                                                                                                                                                                                                                                                                                                                                                                                                                        virus; HBV;
                                                                                                                                                                                                                                                                                                                                                                           cirrhosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      one of the
                                                                                                                  Lee
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The present invention relates to nucleic acid the synthesis, expression and/or stability of Hepatitis B virus (HBV) RNA. The nucleic acid

Hepatitis molecules

s which modulate s C virus (HCV) o s include antisen

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antisense

Claim 1; Page 286;

387pp;

English

Novel compound hepatocellular

l useful for carcinoma,

treating cira or condition

cirrhosis,

associated

liver failure, ated with hepatitis

C virus

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RESULT 1971
ABZ61367/c
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RESULT 1972
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                                                                                                                                                                                  Query Match
Best Local :
                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                 The invention relates to a novel short interfering RNA (siRNA) nucleic acid molecule or an enzymatic nucleic acid molecule, that modulates expression of a nucleic acid molecule encoding HER2, K-Ras, H-Ras, N-Ras, human immunodeficiency virus (HIV) or a component of HIV. The nucleic acid molecule of the invention has cytostatic, anti-HIV, and anti-rheumatic activity. The nucleic acid molecules are useful for reducing HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are also useful for treating breast, ovarian, colorectal, lung, prostate, bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequences shown in ABZ5989 - ABZ65216, ABZ6544 - ABZ65530 - ABZ66520 - ABZ66585 represent substrate/target sequences for the human haz68534.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Novel short interfering RNA and enzymatic nucleic acid useful for treating cancer, modulates the expression of a nucleic acid encoding HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras; enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytostatic; antianti-rheumatic; cancer; AIDS; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                29-MAY-2001; 2001US-0294140P.
06-JUN-2001; 2001US-0296249P.
10-SEP-2001; 2001US-0318471P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ABZ61367 standard; RNA; 17
             ACD51594
                                        ACD51594 standard; RNA; 17
                                                                                                                                                                                                                            Sequence 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mcswiggen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (RIBO-) RIBOZYME PHARM INC
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                                                                                                                                                                  l Similarity
15; Conserv
                                                                                                                                       CGCCGCGGCCGCT 3937
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                                                                                                                                                                                                                                                                                                                                                                                                                                          Page 114; 185pp; English
                                                                                                                                                                                                                                                      ABZ66585 represent substrate/target sequences of the invention
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                                                                                                                                                                                                                          BP; 2 A; 5 C; 10 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                   Conservative
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                                                                                                                                                                                 93.8%;
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Pred. No. 96
                                                                                                                                                                     Mismatches
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                                                                                                                                                                                              DB 1; Length 17;
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                                                                                                                                                                   Gaps
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The present invention relates to nucleic acid molecules which modulate the synthesis, expression and/or stability of Hepatitis C virus (HCV) or Hepatitis B virus (HCV) NNA. The nucleic acid molecules include antisense and enzymatic nucleic acids such as hammerhead ribozymes, DNAzymes, inczymes, amberzymes, and G-cleaver ribozymes. Also disclosed are nucleic acid decoy molecules and aptamers that bind to HBV reverse transcriptase primer sequences, as well as oligonucleotides that specifically bind the Enhancer I region of HBV DNA. The nucleic acids may be used to modulate the expression of HBV genes and HBV viral replication. Also disclosed is a method for screening compounds and/or potential therapies directed against HBV, and compounds that modulate the expression and/or replication of HBV. The compounds of disease states related to HBV and HCV infection, replication and gene expression such as cirrhosis, liver failure, and hepatocellular carcinoma. The present sequence represents a substrate for one of the HBV ribozyme, inozyme, G-cleaver, zinzyme, DNAzyme or amberzyme sequences

Example 1; Page 148; 387pp;

English

Matches Query Match Best Local S

Similarity

0.3%;

Score 14.4; DB : Pred. No. 9e+02;

DB 1; Length 17;

Indels

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inozyme, G-cleant in the present

invention

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Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV; RNA stability; RNA expression; RNA synthesis; antisense; enzymatic nucleic acid; hammerhead ribozyme; DNazyme; inozyme; zinzyme amberzyme; G-cleaver ribozyme; decoy molecule; aptamer; HBV reverse transcriptase; Enhancer I region; viral replication; degenerative; disease state; HBV infection; HCV infection; cirrhosis; liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;
                                                                                                                                                                                                                   Novel compound useful for treating cirrhosis, liver failure, hepatocellular carcinoma, or condition associated with hepatitis
                                                                                                                                                                                                                                                WPI;
                                                                                                                                                                                                                                                                Draper
                                                                                                                                                                                                                                                                         Blatt
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24-OCT-2001;
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                                                                                                                                                                                                                                                                                                                   BLATT L.
MACEJAK D.
MCSWIGGEN J.
MORRISSEY D.
PAYCO P.
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DRAPER K.
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Best Local
The present invention relates to novel human zinc finger-containing proteins and their coding sequences: MDZ3, MDZ4, MDZ7, MDZ12. MDZ3 is encoded at chromosome 7q22.1, MDZ4 is encoded at chromosome 6p21.3-22.2, MDZ7 is encoded at chromosome 16p11.2 and MDZ12 is encoded at chromosome 15q26.1. The MDZ3, MDZ4, MDZ7, and MDZ12 sequences are useful in therapy, or in manufacturing a medicament for treating or preventing a disorder associated with decreased or increased expression or activity of MDZ3, MDZ4, MDZ7, or MDZ12, e.g. cancer or developmental disorders. The nucleic acids and proteins are also useful for diagnosing or monitoring a disease caused by altered expression of MDZ3, MDZ3, MDZ1, or MDZ12. The nucleic acids can also be used as probes to detect and characterize gross alterations in MDZ3, MDZ4, MDZ7, or MDZ12 genetic locus. The probes are useful in constructing microarrays for measuring gene expression. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New zinc finger-containing proteins and nucleic acids, useful in manufacturing a medicament for treating or preventing a disorder associated with decreased or increased expression or activity of MDZ4, MDZ7 or MDZ12, e.g. cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              molecule is selected from the group of ribozymes consisting of Hammerhead, Inozyme, G-cleaver, DNZyme, Amberzyme and Zinzyme in The nucleic acid molecules further comprise at least five ribose residues, at least ten 2'-O-methyl modifications, phosphorothicate linkages on at least three of the 5' terminal nucleotides and a 3' end modification of a 3'-3' inverted abasic moiety, Nucleic acid molecules SEQ ID NO 1 to 37080 are claimed; however, SEQ ID NO 2194-2206 and 17502-17514 are not given in the specification. The present sequence is that of a nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Shannon M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             zinc finger protein; MDZ3; MDŽ4; MDZ7; \dot{\text{MDZ}12}; chromosome 7q22.1; chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer; developmental disorder; ss.
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MDZ3; MDZ4; MDZ7; MDZ12; chromosome 7
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Pred. No. 96
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                                                                                                                   proteins and their coding sequences: MDZ3, MDZ4, MDZ7, MDZ12. MDZ3 is encoded at chromosome 7q22.1, MDZ4 is encoded at chromosome 6p21.3-22.2, MDZ7 is encoded at chromosome 1pp11.2 and MDZ12 is encoded at chromosome 1pp11.2 and MDZ12 is encoded at chromosome 1sq26.1. The MDZ3, MDZ4, MDZ7, and MDZ12 sequences are useful in therapy, or in manufacturing a medicament for treating or preventing a disorder associated with decreased or increased expression or activity of MDZ3, MDZ4, MDZ7, or MDZ12, e.g. cancer or developmental disorders. The nucleic acids and proteins are also useful for diagnosing or monitoring a disease caused by altered expression of MDZ3, MDZ4, MDZ7, or MDZ12. The nucleic acids can also be used as probes to detect and characterize gross alterations in MDZ3, MDZ4, MDZ7, or MDZ12 genetic locus. The probes are useful in constructing microarrays for measuring gene expression. The
                                                               useful in constructing microarrays for measuring gene expression. proteins are useful as therapeutic agents for gene therapy or as vaccines. The present sequence was used to illustrate the inventic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New zinc finger-containing proteins and nucleic acids, useful manufacturing a medicament for treating or preventing a disordassociated with decreased or increased expression or activity MDZ4, MDZ7 or MDZ12, e.g. cancer.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  invention relates to novel human
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human leukocyte antigen (HLA) typing, useful individuals e.g. by determining immunogenetic transplanting between them.
                           New nucleic acid molecule that modulates replication of West Nile (WNV), useful for treating a condition related to WNV infection e. pancreatitis, meningitis, hepatocellular carcinoma or cirrhosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WNV; West Nile Virus; antiinflammatory; cytostatic; hepatotropic; virucide; neuroprotective; antibacterial; replication; pancreatitis; encephalitis; myocarditis; meningitis; infection; hepatitis; liver failure; cancer; cirrhosis; Hammerhead; Inozyme; DNAzyme;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 10;
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The invention relates to nucleic acid molecules that modulate replication of the West Nile Virus (WNV). The nucleic acid molecules are useful for treating a condition related to WNV infection e.g. pancreatitis, encephalitis, myocarditis, meningitis, neurologic infection, hepatitis, liver failure, hepatocellular carcinoma or cirrhosis. The nucleic acid
                                                                                                                                                                                                                   New nucleic acid molecule that modulates replication of West Nile (WNV), useful for treating a condition related to WNV infection e pancreatitis, meningitis, hepatocellular carcinoma or cirrhosis.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      48
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Pred.
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                                                                                                                                                                  English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             14.4; DB 1;
No. 9e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ğ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             nepatotropic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      °,
                                                                                                                                                                                                                                                   e.g.
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RESULT 1965
ABV90367/c
ID ABV9036
XX ABV9036
AC ABV9036
XC ABV9036
XC Human P
XX Human;
KW Human;
KW Rho GTP
KW Gene th
XX Homo sa
X
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CC protein 1 (POSHI 1) polypeptide (1), comprising a sequence of 730 amino CC acids (S1, ABB3399), a sequence having 65% sequence identity to (S1), CC (S1) having 95% deviations, especially conservative substitutions or a CC fragment of the sequences comprising at least 8 contiguous amino acids. CC Human POSHI 1 is a proto-oncogene/oncogene product that functions as an CC adaptor protein that interacts with Rho family small GTPasses as well as CC downstream components of the signal transduction pathway. (I) is useful CC encoding (I) are useful for diagnosing, monitoring disease and treating CC caused by altered expression of human POSHI including disease and treating CC useful in gene therapy. (II) is useful for constructing which CC useful in gene therapy. (II) is useful for constructing microarrays which CC are useful for measuring and for surveying gene expression and creating CC transgenic non-human animals capable of producing the proteins. The CC of the invention. Note: The present sequence did not form part of the CC of the invention, but is based on sequence information supplied to CC Derwent by the European Patent Office
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Best Local Similarity
Matches 15; Conserv
                                30-JAN-2001;
30-JAN-2001;
30-JAN-2001;
                                                                                                                    30-JAN-2001;
30-JAN-2001;
                                                                                                                                                                                                                                                                 11-SEP-2002
                                                                                                                                                                                                                                                                                                                  EP1239051-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; POSHL 1; SH3 domain; POSH-like Rho GTPase; signal transduction; gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human POSHL1 scanning oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ABV90367;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 17 BP; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Novel human SH3 domain (POSH)-like signaling -1, useful for treating disorders associated activity of human POSHL1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10-OCT-2001; 2001US-0328205P.
        30-JAN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     23-DEC-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABV90367 standard; DNA; 17 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2002-684061/74.
                                                                                                                                                                                                      28-JAN-2002;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0.3%;
nilarity 93.8%;
Conservative
  ; 2001WO-US000663.
; 2001WO-US000665.
; 2001WO-US000665.
; 2001WO-US000667.
; 2001WO-US000668.
                                                                                                                                                                                                      2002EP-00001165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                               transgenic; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A; 7 C; 4 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 14.4;
Pred. No. 96
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence Listing;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         signalling protein 1; oncogene;
expression; cancer; vaccine;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ ID NO 1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  protein 1 polypeptide, PO:
with decreased expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ۲,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gape
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  POSHL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
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acids (S1, ABBB399), a sequence having 65% sequence identity to (S1), (S1) having 95% deviations, especially conservative substitutions or a fragment of the sequences comprising at least 8 contiguous amino acids. Human POSHL 1 is a proto-oncogene/oncogene product that functions as an adaptor protein that interacts with Rho family small GTPases as well as consistent components of the signal transduction pathway. (I) is useful for identifying a specific binding partner. (I) and nucleic acids (II) encoding (I) are useful for diagnosing, monitoring disease and treating caused by altered expression of human POSHL1 including diagnosing and treating cancer, they useful in the development of vaccines and (II) is useful for measuring and for surveying gene expression and creating transgenic non-human animals capable of producing the proteins. The present sequence is that of a scanning oligonucleotide useful in examples of the invention. Note: The present sequence did not form part of the printed specification, but is based on sequence information supplied to Derwent by the European Patent Office
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       30-JAN-2001;
30-JAN-2001;
23-MAY-2001;
10-OCT-2001;
                                                                                                                                                                                                                                                                                                                                                       The invention rel
                                                                                                                                                                                                                                                                                                                                                                                                            Example 2; SEQ ID NO 1080; 60pp +
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Novel human SH3 domain (POSH)-like signaling protein 1 polypeptide, PO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2002-684061/74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Shannon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (AEOM-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AEOMICA INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                   of human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; 2001WO-US000669.
; 2001WO-US000670.
; 2001US-00864761.
; 2001US-0328205P.
                                                                                                                                                                                                                                                                                                                                                                         relates
                                                                                                                                                                                                                                                                                                                                                                                                                                                     POSHL1.
                                                                                                                                                                                                                                                                                                                                                    es to an isolated polypeptide (I),
                                                                                                                                                                                                                                                                                                                                                                                                              Sequence Listing; English.
                                                                                                                                                                                                                                                                                                                                                                         SH3 domain
                                                                                                                                                                                                                                                                                                                                                       comprising a sequence
                                                                                                                                                                                                                                                                                                                                                       (POSH)-like signalling a sequence of 730 aming
                                                                                                                                                                                                                                                                                                                                                       730 amino
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POSHL ion or

밁 S Matches Query Match Sequence Local 819 CTGGAGGAAGAGGACA 834 16 l Similarity 15; Conserv CTGGAGGACGAGGACA 17 BP; Conservative N A, 0.3%; 7 C; 3 ç <u>,</u> Score 14.4; DB 1; Length 17; Pred. No. 9e+02; ഗ Mismatches H --0 U; 9e+02; 0 Other; Indels 0 Gape

0

RESULT 1966 ABL31065 ABL31065 standard; DNA; 17

Human HLA genotyping oligonucleotide 21-MAR-2002 ABL31065; (first entry) SEQ ID

Human; human leukocyte antigen; HLA; genotype; polymorphism; immunogenetic; transplantation; genetic disease; ss.

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Homo sapiens.

WO200192572-A1

06-DEC-2001.

01-JUN-2001; 2001WO-JP004662

01-JUN-2000; 2000JP-00164798

(NISM) NISSHINBO IND INC (SYST-) SYSTEM RES INC.

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RESULT 1963
ABV79762/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention relates to human testis expressed Patched like protein (HTPL, see ABV78759 to ABV78762 and ABB98519 to ABB98520). HTPL has two isoforms, with a few single base pair differences between the two. One of the single base pair changes introduces a premature stop codon in HTPL-S (S for short) compared to HTPL-L (L for long). HTPL shared structural features strongly imply that HTPL plays a role similar to that of Patched, and is a potential tumour supressor. HTPL is important in regulating male germ cell development, and the HTPL gene was mapped to human chromosome 10p12.1. HTPL and its coding sequence are useful for diagnosing a disorder caused by mutation in HTPL, and in therapy and manufacture of a medicament for treatment or prevention of such disorder associated with decreased expression or activity of human HTPL. Such disorders include disorders of testis, or adrenal, adult and feetal liver, bone marrow, brain, kidney, lung, placenta, prostate, skeletal muscle or colon function. HTPL proteins and nucleic acids are clinically useful diagnostic markers and potenial therapeutic agents for example from the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity
Matches 15; Conserv
                                                                                                                                                                                                                                                                                                                               Human; gene therapy; tumour suppressor; HTPL; chromosome 10p12.1; human testis expressed Patched like protein; testis; adrenal; liver; male germ cell development; bone marrow; brain; kidney; lung; placenta; prostate; skeletal muscle; colon; male infertility; cancer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                   Human HTPL scanning oligonucleotide SEQ ID 1008.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 17 BP; 4 A; 3 C; 6 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ABV79762 standard; DNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Novel isolated human testis expressed Patched like protein (HTPL), useful for identifying agonist and antagonist and specific binding partners, and for treating subjects having defects in HTPL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2002-676582/73.
                                                                                                                                   30-JAN-2001;
30-JAN-2001;
                                                                                                                                                                                                                            07-AUG-2002
                                                                                                                                                                                                                                                               EP1229046-A2
                                                                                                                                                                                                                                                                                              Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABV79762;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            example from the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 2; Page 196; 718pp; English.
(AEOM-) AEOMICA INC
                                                                                   30-JAN-2001;
                                                                                                    30-JAN-2001;
                                                                                                                    30-JAN-2001;
                                                                                                                                                                                        28-JAN-2002; 2002EP-00001167.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4937 GCCCCCCAACATGTAT 4952
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16 GCCCCCCAAGATGTAT 1
                                             2001WO-US000663.
2001WO-US000664.
2001WO-US000667.
2001WO-US000667.
2001WO-US000668.
2001WO-US000668.
2001WO-US000668.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    93.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 14.4; DB Pred. No. 9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 1; Length 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
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The present invention relates to human testis expressed Patched like CC protein (HTPL, see ABY7875) to ABY78762 and ABB98519 to ABB98520). HTPL CC has two isoforms, with a few single base pair differences between the CC two. One of the single base pair changes introduces a premature stop CC codon in HTPL-S (§ for short) compared to HTPL-L (L for long). HTPL CC shares an overall structure organisation with the Patched protein. The Shared structural features strongly imply that HTPL plays a role similar to that of Patched, and is a potential tumour suppressor. HTPL is CC important in regulating male germ cell development, and the HTPL gene was CC mapped to human chromosome 10pl2.1. HTPL and its coding sequence are useful for diagnosing a disorder caused by mutation in HTPL, and in CC therapy and manufacture of a medicament for treatment or prevention of CC therapy and manufacture of a medicament for treatment or activity of human CC HTPL. Such disorders include disorders of testis, or adrenal, adult and CC foetal liver, bone marrow, brain, kidney, lung, placenta, prostate, Seletal muscle or colon function. HTPL proteins and nucleic acids are CC clinically useful diagnostic markers and potenial therapeutic agents for male infertility and cancer. The present oligonucleotide was used in an or aximal the rome the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Zhan
Sequence 17 BP; 3 A; 3 C; 7 G; 4 T; 0 U; 0 Other;
                                                      male infertility and cancer. example from the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Novel isolated human testis expressed Patched like protein (HTPL), useful for identifying agonist and antagonist and specific binding partners, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2002-676582/73
                                                   example from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 2; Page 195; 718pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              for treating subjects having defects in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ç
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   HTPL.
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Query Match Best Local Similarity Matches 15; Conserv 4937 GCCCCCCAACATGTAT 4952 17 Conservative 0.3%; 0 Score 14.4; DB 1; Length 17; Pred. No. 9e+02; Mismatches Indels 0 Gaps

0

문 S

RESULT 1964
ABV90365/c
ID ABV9036
XX ABV9036
XX ABV9036
XX ABV9036
XX Human F
XX Human F
XX Human,
KW Rho GTI
KW Rho GTI
KW Gene tl
XX
FP E28-JANXX
PR 30-JANPR 30-JAN-ABV90365; ABV90365 standard; DNA; 17 Human POSHL1 scanning oligonucleotide SEQ ID NO 1078. 23-DEC-2002 (first entry)

Human; POSHL 1; SH3 domain; POSH-like signalling protein 1; Rho GTPase; signal transduction; gene expression; cancer; vagene therapy; transgenic; ss. oncogene;

domo sapiens

EP1239051-A2

28-JAN-2002; 2002EP-00001165

30-JAN-2001; 30-JAN-2001; 30-JAN-2001; 30-JAN-2001; 30-JAN-2001; 30-JAN-2001; 2001WO-US000664. 2001WO-US000665. 2001WO-US000666. 2001WO-US000668. 2001WO-US000669. 2001WO-US000669. 2001WO-US000670. 2001WO-US000663

30-JAN-2001; 30-JAN-2001;

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RESULT 1961
ABNO8210/c
ID ABNO821
XX ABNO821
XX ABNO821
XX AUMAN
DT 29-MAY-
XX Human G
XX Homo 88
XX W020019
XX W020019
XX G
PR 06-DEC-
XX 25-MAY-
PR 25-MAY-
PR 21-SEP-
PR 21-SEP-
PR 21-SEP-
PR 21-SEP-
PR 21-SEP-
PR 30-JAN-
PR 30-J
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
Matches 15; Conserv
                                                                                                                                                                                                                                                                                                                                                            30-JAN-2001;
30-JAN-2001;
30-JAN-2001;
30-JAN-2001;
30-JAN-2001;
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30-JAN-2001;
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cc nucleic acids can be used as probes to detect, characterise and quantify conclosing can be used as probes to detect, characterise and quantify conclosing in camples, as amplification substrates, to provide initial substrates for the recombinant engineering of hGDMLP-1 cc protein variants having desired phenotypic improvements, and for expressing the proteins. The hGDMLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise hGDMLP cused as immunogens to raise antibodies that specifically recognise hGDMLP cc and/or amount specifically of hGDMLP proteins, as specific biomolecule capture probes for surface-enhanced laser desorption ionisation, as tharapeutic supplement in patients having specific deficiency in hGDMLP-1 conduction, and in vaccines or for replacement therapy. The production, and in vaccines or for replacement therapy. The polymucleotide sequences encoding hGDMLP-1 may be used for diagnosing a clisorder associated with the expression of hGDMLP-1, in particular heart cand skeletal muscle disorders. hGDMLP-1 is localised to chromosome 22.

The present sequence represents an oligomer used in the screening of the homolecule of the present for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO
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protein 1 (1
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                                                                                                                                      ftp.wipo.int/pub/published_pct_sequence
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RESULT 1962
ABV79763/c
                                                                                                                                                                                            Human; gene therapy; tumour suppressor; HTPL; chromosome 10p12.1; human testis expressed Patched like protein; testis; adrenal; liver; male germ cell development; bone marrow; brain; kidney; lung; placenta;
                                                                                                                28-JAN-2002; 2002EP-00001167.
                                                                                                                                 07-AUG-2002.
                                                                                                                                                    EP1229046-A2
                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                     prostate;
                                                                                                                                                                                                                                Human HTPL scanning oligonucleotide SEQ ID
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New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser

30-JAN-2001; 2001WO-US000663. 30-JAN-2001; 2001WO-US000664. 30-JAN-2001; 2001WO-US000665. 30-JAN-2001; 2001WO-US000667. 30-JAN-2001; 2001WO-US000668. 30-JAN-2001; 2001WO-US000668. 23-MAY-2001; 2001US-00864761. 09-OCT-2001; 2001US-0327898P.

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The present invention describes a human genome-derived myosin-like protein 1 (hGDMLP-1). The protein and polynucleotide sequences of hGDMLP-1 can be used in gene therapy and vaccine production. The hGDMLP-1 nucleic acids can be used as probes to detect, characterise and quantify hGDMLP-1 nucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering of hGDMLP-1 protein variants having desired phenotypic improvements, and for expressing the proteins. The hGDMLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise hGDMLP-1 and/or amount specifically of hGDMLP proteins, as specific biomolecule capture probes for surface-enhanced laser desorption ionisation, as therapeutic supplement in patients having specific deficiency in hGDMLP-1 production, and in vaccines or for replacement therapy. The production, and in vaccines or for replacement therapy. The production sequences encoding hGDMLP-1 may be used for diagnosing a disorder associated with the expression of hGDMLP-1, in particular heart and skeletal muscle disorders hGDMLP-1 is localised to chromosome 22.
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21-SEP-2000;
27-SEP-2000;
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skeletal muscle disorder; amplicon; screening; ss.
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heart disease;
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The present invention describes a human genome-derived myosin-like protein 1 (hdDMLP-1). The protein and polymucleotide sequences of hdDMLP-1 can be used in gene therapy and vaccine production. The hdDMLP-1 nucleic acids can be used as probes to detect, characterise and quantify hdDMLP-1 nucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering of hdDMLP-1 protein variants having desired phenotypic improvements, and for

hGDMLP-

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New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human myosin-like protein hGDMLP-1.

Disclosure;

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7086;

214pp; English

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The present invention describes a human genome-derived myosin-like CC protein 1 (hgDMLP-1). The protein and polynucleotide sequences of hgDMLP-1 can be used in gene therapy and vaccine production. The hgDMLP-1 cc nucleic acids can be used as probes to detect, characterise and quantify concleic acids can be used as probes to detect, characterise and quantify concleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering of hgDMLP-1 concentration variants having desired phenotypic improvements, and for concentration as standards in assays used to determine the concentration and/or amount specifically of hgDMLP-1 proteins or polypeptides may be completed as immunogens to raise antibodies that specific biomolecule and/or amount specifically of hgDMLP proteins, as specific biomolecule capture probes for surface-enhanced laser desorption ionisation, as capture probes for surface-enhanced laser desorption ionisation, as capture probes for surface-enhanced laser desorption deficiency in hgDMLP-1 production, and in vaccines or for replacement therapy. The production, and in vaccines or for replacement therapy. The production, and in vaccines or for replacement therapy. The complete disorders encoding hgDMLP-1 may be used for diagnosing a confidence of the surface of the printed confidence in the exemplification of hgDMLP-1, in particular heart and skeletal muscle disorders. hgDMLP-1 is localised to chromosome 22. The prosent sequence in the exemplification of the present invention. N.B. The present sequence in the exemplification of the present invention. N.B. The production, but was obtained in electronic format directly from WIPO at figure and directly from WIPO at figure 
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29-MAY-2002

(first entry)

ABN01352;

ABN01352 standard;

DNA; 17

Human GDMLP-1

17-mer scanning

SEQ ID NO:4 sequence

SEQ ID NO: 1344.

hGDMLP-1; heart;

Human; genome-derived myosin-like protein 1; GDMLP-1; hGDMLF muscle; myosin; chromosome 22; gene therapy; vaccine; heart skeletal muscle disorder; amplicon; screening; ss.

WO200192524-A2 Homo sapiens. 밁

17

82 GCTTCTTCAGAAGTGG 97

Matches Query Match Best Local

15;

Conservative

0;

Mismatches .

Similarity

93.8%;

Pred. No. Score 14.4;

9e+02; DB 1; <u>|</u>

Length Indels

17;

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Gaps

0

RESULT 1957

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CC expressing the proteins. The hcDMLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise hGDMLP in proteins, as standards in assays used to determine the concentration and/or amount specifically of hcDMLP proteins, as specific biomolecule capture probes for surface-enhanced laser desorption ionisation, as the concentration and in vaccines or for replacement therapy. The production, and in vaccines or for replacement therapy. The polymucleotide sequences encoding hGDMLP-1 may be used for diagnosing a CD disorder associated with the expression of hGDMLP-1, in particular heart and skeletal muscle disorders. hGDMLP-1 is localised to chromosome 22. The present sequence represents an oligomer used in the screening of the hGDMLP-1 sequence in the exemplification of the present invention. N.B.

The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO as for Ambhalishad are formance.
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30-JAN-2001;
30-JAN-2001;
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30-JAN-2001;
30-JAN-2001;
30-JAN-2001;
                                                                                                                                                                                                                                                                                                                                                                            protein 1 (hGDMLP-1). The protein and polynucleotide sequences of hGDMLP 1 can be used in gene therapy and vaccine production. The hGDMLP-1 nucleic acids can be used as probes to detect, characterise and quantify hGDMLP-1 nucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering of hGDMLP-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human myosin-like protein hGDMLP-1.
Sequence 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; SEQ ID NO 6703; 214pp; English.
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; 2001WO-US000666.
; 2001WO-US000667.
; 2001WO-US000668.
; 2001WO-US000669.
; 2001WO-US000670.
; 2001WO-US000670.
BP; 5 A; 6 C; 3 G; 3 T; 0 U; 0 Other;
                                       .int/pub/published_pct_sequence
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RESULT 1954
ABNO8209/c
ID ABNO820
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XX Human G
XX Homo 8a
XX W020015
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Matches 15
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04-OCT-2000;
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                                                                                 New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human myosin-like protein hGDMLP-1.
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Pred. No. 9
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heart disease;
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Disclosure;

SEQ

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8201; 214pp; English

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The present sequence represents an oligomer used in the screening of the hGDMLP-1 sequence data for this patent did not form part of the printed capture of the printed services obtained in electronic format directly from WIPO as format directly from WIPO.
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Matches 15
                          04-OCT-2000; 3
30-JAN-2001; 2
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                                                                                                                                                                                                                                                                                                                                                                                                                                            Human; genome-derived myosin-like protein 1; muscle; myosin; chromosome 22; gene therapy; skeletal muscle disorder; amplicon; screening
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27-SEP-2000;
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RESULT 1952
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21-SEP-2000;
27-SEP-2000;
therapeutic supplement in patients having specific deficiency in hgDMLP-1 production, and in vaccines or for replacement therapy. The polynucleotide sequences encoding hgDMLP-1 may be used for diagnosing a disorder associated with the expression of hgDMLP-1, in particular heart and skeletal muscle disorders. hgDMLP-1 is localised to chromosome 22. The present sequence represents an oligomer used in the screening of the hgDMLP-1 sequence in the exemplification of the present invention. N.B. The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequence
                                                                                                                                                             hGDMLP-1 nucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering of hGDMLP-1 protein variants having desired phenotypic improvements, and for expressing the proteins. The hGDMLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise hGDMLP-1 proteins, as standards in assays used to determine the concentration and/or amount specifically of hGDMLP proteins, as specific biomolecule capture probes for surface-enhanced laser desorption ionisation, as
                                                                                                                                                                                                                                                                                           protein 1 (hGDMLP-1). The protein and polynucleotide sequences of hGDMLP-1 can be used in gene therapy and vaccine production. The hGDMLP-1 nucleic acids can be used as probes to detect, characterise and quantify
                                                                                                                                                                                                                                                                                                                                                                                                            New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human myosin-like protein hGDMLP-1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              muscle; myosin; chromosome 22; gene therapy; vacci
skeletal muscle disorder; amplicon; screening; ss.
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                                                                                                                                                                                                                                                                                                                                                                               Disclosure;
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2001WO-US000662
1 2001WO-US000663
1 2001WO-US000665
2001WO-US000666
2001WO-US000666
2001WO-US000667
2001WO-US000669
2001WO-US000669
                                                                                                                                                                                                                                                                                                                                                invention
                                                                                                                                                                                                                                                                                                                                                                               SEQ ID NO 1348; 214pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2000GB-00024263
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2000US-0236359P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              entry)
                                                                                                                                                                                                                                                                                                                                                describes a human genome-derived myosin-like
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Best Local Sim
Matches 15;
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21-SEP-2000;
27-SEP-2000;
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                                                                                                                    New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human myosin-like protein hGDMLP-1.
                                                                                                                                                                           5
                                                                                                                                                                                                                                                                                                                                                                                                                           Human; genome-derived myosin-like protein 1; GDMLP-1; hGDMLP-1; hear muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease; skeletal muscle disorder; amplicon; screening; ss.
                                                                                                                                                                                                                                                                          30-JAN-2001;
30-JAN-2001;
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                                                                                                                                                         2002-179446/23.
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                                                                                                                                                                                         AEOMICA INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    standard;
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                                                                                                     SEQ
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2001WO-US000669.
2001WO-US000670.
2001US-0266860P.
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2001WO-US000666.
2001WO-US000667.
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2001WO-US000664.
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2001WO-US000662.
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2000US-0234687P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                17-mer scanning SEQ ID NO:5 sequence
                                                                                                                                                                           Penn
                                                                                                      ID NO 8197;
                                                                                                                                                                           SG,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA; 17
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                                                                                                     214pp;
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Pred. No. 9
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                                                                                                     English.
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The present invention describes a human genome-derived myosin-like protein 1 (hgDMLP-1). The protein and polynucleotide sequences of hgDMLP-1 can be used in gene therapy and vaccine production. The hGDMLP-1 nucleic acids can be used as probes to detect, characterise and quantify hgDMLP-1 nucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering of hgDMLP-1 protein variants having desired phenotypic improvements, and for expressing the proteins. The hgDMLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise hgDMLP-1 proteins, as standards in assays used to determine the concentration and/or amount specifically of hgDMLP proteins, as specific biomolecule

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Best Local S
Matches 14
                                                                                                                                                                                              20-MAR-1992;
19-MAR-1993;
14-DEC-1993;
      The sequence represents the purine-rich oligonucleotide #3 used in us in a nucleic acid transporter system. The nucleic acid transporter system. The nucleic acid transporter system the puriance iligands which uses nucleic acid binding complexes containing surface ligands which capable of binding to a cell surface receptor and entering the cell through cytosis. The compounds of the invention are either ligands, through cytosis. The compounds of the invention are either ligands.
                                                                                                           Nucleic
                                                                                                                                                                                                                                         05-JUN-1995;
                                                                                                                                                                                                                                                                                                                                        Nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                            AAS08471 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention relates to oligonucleotides that downregulate the expression of human Grb2-related with Insert Domain (GRID) gene. GRID is a T-cell co-stimulatory adaptor protein. The oligonucleotides are useful for modulating the expression of GRID, to treat conditions such as tissue/graft rejection and leukaemia. The oligonucleotides can also be administered in conjunction with other therapies such as radiation, chemotherapy and cyclosporin treatment. The present oligonucleotide was
                                                                                                                                                                                                                                                               23-JAN-2001
                                                                                                                                                                                                                                                                                                                                                             Purine-rich
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ng human disease
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AGCTGCCCCCAAGAAA 898
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                                                                                                                                                                                                                                                                                                                                       transport;
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                                                                                                                                                                                             92US-00855389.
93WO-US002725.
93US-00167641.
                                                                                                                                                                                                                                                                                                                             hepatocyte; muscle;
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                                                                         15; 111pp;
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 (surface
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                                                                                                                                                   Cristiano
                                                                                                          system, useful
                                                                                                                                                                                                                                                                                                                          cytosis; ligand; lysis e; muscle; bone forming
                                                                                               such
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        regulating the
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Pred. No. 96
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                                                                                              cancer
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                                                                                              creating transgenic an animal model.
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                                                                                                                                                                                                                                                                                                                            agent;
cell;
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nucleic acid
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oligonucleotide;
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Best Local
                                                                                           The sequence represents the double-stranded vector target sequence #3 used in a nucleic acid transporter system. The nucleic acid transporter system uses nucleic acid binding complexes containing surface ligands which are capable of binding to a cell surface receptor and entering the cell through cytosis. The compounds of the invention are either ligands, binding molecules (surface ligands), lysis agents, spacer molecules or their intermediates. The ligands, binding molecules, lysis agents and spacer molecules are used in nucleic acid transporter systems to deliver nucleic acid into specific cells e.g. in gene therapy to deliver nucleic
                                                                                                                                                                                                                                                                                                                    20-MAR-1992;
19-MAR-1993;
14-DEC-1993;
                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  their intermediates. The ligands, binding molecules, lysis agents spacer molecules are used in nucleic acid transporter systems to d nucleic acid into specific cells e.g. in gene therapy to deliver n acid into hepatocytes, muscle cells or bone forming cells
                                                                                                                                                                                                     Disclosure; Fig
                                                                                                                                                                                                                          assessing
                                                                                                                                                                                                                                    Nucleic acid transport system,
                                                                                                                                                                                                                                                                                                                                                               05-JUN-1995;
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                                                                                                                                                                                                                                                                                                                                                                                                        US6177554-B1.
                                                                                                                                                                                                                                                                                                                                                                                                                                             Nucleic acid transport; cytosis; ligand; lysis agent; spacer molecule; gene therapy; hepatocyte; muscle; bone forming cell; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Vector
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                                                                                     into hepatocytes, muscle cells or bone forming
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                        l Similarity
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93WO-US002725.
93US-00167641.
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                                           Score 14.4;
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                                           Length 17;
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ABL46870/c
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Best Local
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                             Human GRID NCH ribozyme substrate oligonucleotide #187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               chemotherapy and cyclosporin treatment. The present oligonucleotide was used to illustrate the invention
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leukaemia; cytostatic;
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                                                                                                                                                                                 ABL46733 standard; RNA; 17 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BP; 5 A; 2 C; 6 G; 0 T; 4 U; 0 Other;
                                                                               (first entry)
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Sequence 17
                                         The present invention relates to oligonucleotides that downregulate the expression of human Grb2-related with Insert Domain (GRID) gene. GRID is a T-cell co-stimulatory adaptor protein. The oligonucleotides are useful for modulating the expression of GRID, to treat conditions such as tissue/graft rejection and leukaemia. The oligonucleotides can also be administered in conjunction with other therapies such as radiation, chemotherapy and cyclosporin treatment. The present oligonucleotide was
                                                                                                                                                                                                       New nucleic acid(s) for regulating the Grb2-related with Insert Domain (GRID) gene comprises using antisense and enzymatic nucleic acid molecules such as hammerhead ribozymes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; Grb2-related with Insert Domain; GRID; T-cell; co-stimulatory adaptor protein; tissue rejection; graft rejection; leukaemia; cytostatic; ss.
                                                                                                                                                                           Claim 4;
                                                                                                                                                                                                                                                                                                      Jarvis
                                                                                                                                                                                                                                                                                                                                      (RIBO-)
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                               used to
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                                                                                                                                                                                                                                                                                                                                      RIBOZYME PHARM INC. GLAXO GROUP LTD.
                             illustrate the invention
                                                                                                                                                                         Page 66; 108pp; English
                                                                                                                                                                                                                                                                                                      Von Carlowitz I,
BP; 5 A; 9 C; 3 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                    Mcswiggen JA,
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RESULT 1949
ABL46850
Human GRID NCH ribozyme substrate oligonucleotide #304
                                27-JUN-2003
                                                               ABL46850;
                                                                                            ABL46850 standard;
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                              (first entry)
                                                                                            RNA; 17
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Homo

leukaemia; cytostatic;

88.

WO200162911-A2

24-FEB-2000; 2000US-0184594P

(RIBO-) RIBOZYME PHARM INC (GLAX) GLAXO GROUP LTD.

23-FEB-2001;

2001WO-US005957

Human; Grb2-related with Insert Domain; GRID; T-cell; co-stimulatory adaptor protein; tissue rejection; graft rejection;

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Query Match
Best Local Similarity
Matches 15; Conserv

Conservative

0; Score Pred.

Mismatches 14.4; DB : No. 9e+02;

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ABL46732
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Best Local
        New nucleic acid(s) for regulating the Grb2-related (GRID) gene comprises using antisense and enzymatic molecules such as hammerhead ribozymes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention provides the protein and coding sequences of Arabidopsis thallana VRNI. This protein is capable of altering the vernalisation responses of a plant. Also provided are a number of PCR primers used to isolate the sequences. The sequences are useful in the production of crop plants, where they are able to control the timing of flowering, the duration of vernalisation required, the optimum temperature, or even eliminate the need for vernalisation completely. The present sequence is a PCR primer used to isolate the VRNI coding sequence
                                                                                                                                                                                                                                                              co-stimulatory adaptor protein; tissue rejection; graft rejection; leukaemia; cytostatic; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Novel VRN1 polynucleotide sequence encoding a polypeptide which alters vernalization response of plant in which VRN1 nucleic acid is expressed, useful for influencing and assessing vernalization phenotype of plants.
                                                                                                       (RIBO-)
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                                                                                                                                                                                                                                                                                        Human;
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                                                                                                       RIBOZYME PHARM INC. GLAXO GROUP LTD.
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                                                                               Von Carlowitz
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llarity 93.8%;
Conservative
                                                                                                                                           2000US-0184594P
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                                                                               Mcswiggen JA,
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Query Match Best Local S Matches 14

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                                                                         The present invention relates to oligonucleotides that downregulate the expression of human Grb2-related with Insert Domain (GRID) gene. GRID is a T-cell co-stimulatory adaptor protein. The oligonucleotides are useful for modulating the expression of GRID, to treat conditions such as tissue/graft rejection and leukaemia. The oligonucleotides can also be
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            tissue/graft rejection and leukaemia. The oligonucleotides can also be administered in conjunction with other therapies such as radiation, chemotherapy and cyclosporin treatment. The present oligonucleotide was used to illustrate the invention
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                                              administered in conjunction with other therapies such as radiation, chemotherapy and cyclosporin treatment. The present oligonucleotide
                                                                                                                                                                         Claim 4; Page 68; 108pp; English
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                                                                                                                                                                                                                     New nucleic acid(s) for regulating the Grb2-related (GRID) gene comprises using antisense and enzymatic
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                               illustrate
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                                                                                                                                                                                                                                                                                                      Von
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                                                                                                                                                                                                                                                                                                      Carlowitz I,
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                               the invention
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RESULT 1943
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Matches 15
Human; gene therapy; adenosine deaminase deficiency; p53; beta-globin; retinoblastoma; BRCA1; BRCA2; CFTR; cystic fibrosis; cancer; Factor V; cyclin-dependent kinase inhibitor 2A; CDKN2A, melanoma; APC; HBA1; HBA2; adenomatous polyposis of the colon; Factor VII; Factor IX; thrombosis; haemophilia; alpha thalassaemia; haemoglobin alpha locus 1; MLH1; APOE; mismatch repair; MSH2; MSH6; hyperlipidaemia; apolipoprotein E; LDLR; familial hypercholesterolaemia; UGTI; syndrome; APP; PSENI; antisense;
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27-MAR-2000; 2000US-0192179P.
01-JUN-2000; 2000US-0208538P.
30-OCT-2000; 2000US-0244989P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 17
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                                                                                                                                                                     BRCA2 mutation correcting oligonucleotide SEQ ID NO:
                                                                                                                                                                                                                 24-JAN-2002
                                                                                                                                                                                                                                                                                                   ABA78250 standard; DNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      oligonucleotides of the
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01-JUN-2000;
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Alzheimer's disease; cytostatic; antisickling; antianaemic; haemostatic;
                                                                                                    A thaliana
                                                                                                                                                                                                                                                                                                                                                                                           Sequence 17
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; 2000US-0208538P.
; 2000US-0244989P.
                                                                                                                                                                                                                                                                                                                                                                                         BP; 3 A; 4 C; 4 G; 6 T;
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                                                                                                                                  (first entry)
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                                                                                                                                                                                              DNA;
                                                                                                    PCR primer V16.
                                                                      flowering; crop;
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Pred. No. 9
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Matches 15
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19-MAR-1993;
14-DEC-1993;
                              Nucleic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Nucleic acid delivery; nucleic acid transporter system; hormone; enzyme; growth factor; clotting factor; apolipoprotein; receptor; drug; oncogene; tumor antigen; tumor suppressor; viral antigen; parasitic antigen;
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   Nucleic acid
                                                            21-MAR-2001
                                                                                                                      AAC82861 standard;
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                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; Col
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                             acid transporter system primer
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 delivery; nucleic acid transporter system; hormone; enzyme;
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93WO-US002725.
93US-00167641.
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RESULT 1942
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ID ABA7824
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BRCA2 mutation

correcting oligonucleotide SEQ ID

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24-JAN-2002

(first

entry.

ABA78249 standard;

DNA;

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Human; gene therapy; adenosine deaminase deficiency; p53; beta-globin; retinoblastoma; BRCA1; BRCA2; CFTR; cystic fibrosis; cancer; Factor V; cyclin-dependent kinase inhibitor 2A; CDKN2A; melanoma; APC; HBA1; HBA2; adenomatous polyposis of the colon; Factor VII; Factor IX; thrombosis; haemophilia; alpha thalassaemia; haemoglobin alpha locus 1; MLH1; APOE; mismatch repair; MSH2; MSH6; hyperlipidaemia; apolipoprotein E; LDLR; familial hypercholesterolaemia; UGT1; syndrome; APP; PSEN1; antisense;

UDP-glucuronosyltransferase; amyloid precursor protein;

presentlin-1;

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Query Match
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19-MAR-1993;
14-DEC-1993;
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                                                                                                                                                    Sequence
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The transporter system uses lysis agents to overcome the problems
endosomal/lysosomal degradation seen with prior art systems
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281 rerererererer
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93US-00167641.
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Disclosure; Fig 15A; 107pp; English.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to a nucleic acid transport system (NTS) for the delivering nucleic acid into a cell. The NTS contains but is not limited to 5 components: (a) the nucleic acid or a macromolecule to be delivered; (b) a moiety that recognizes and binds to a cell surface receptor or cell acid or macromolecular molecule binding moiety; (d) a moiety that is capable of moving or initiating movement through cytosis; (c) a nucleic cells of moving or initiating movement through a nuclear membrane; and/ cor (e) a lysis moiety that enables the transport of the entire complex from the cell surface directly into the cytoplasm of the cell. The NTS cells for can be used to treat disorders by targeting specific nucleic acid accordingly. The NTS can also be used to create transgenic animals for assessing human disease, such as cancer, in an cell surface expression into specifically targeted tissue culture cells. The NTS can be used to treat disorders by targeting specific expression into specifically targeted tissue culture cells. The NTS can be used to create the control of various nucleic acids to be studied by targeting specific expression into specifically targeted tissue culture cells. The NTS avoids the problem of endosomal/lysosomal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
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        The present invention relates to enzymatic and antisense nucleic acid molecules that act as inhibitors of the expression of repressor genes encoding the TR2 Orphan receptor, EAR3/COUP-TP-1, the GARA transcription factor gene, IRF-2 and/or the CAATT Displacement Protein (CDP). Inhibition of the repressors removes prevents inhibition (and
                                                                                                                                              Enzymatic and antisense nucleic acid inhibition of repressor genes, useful for producing e.g. granulocyte colony stimulating factor protein, interferon alpha and erythropoietin.
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                                                                                                                 Claim 18;
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                                                                                                                       The present invention relates to enzymatic and antisense nucleic acid molecules that act as inhibitors of the expression of repressor genes encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA transcription factor gene, IRF-2 and/or the CAATT Displacement Protein (CDP). Inhibition of the repressors removes prevents inhibition (and consequently increases expression of) genes involved in the production of erythropoietin, granulocyte colony stimulating factor protein and
                                                                                                                                                                                                                                          Enzymatic and antisense nucleic acid inhibition of repressor genes, useful for producing e.g. granulocyte colony stimulating factor prointerferon alpha and erythropoietin.
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nes 15; Conservative
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17
                                                        Similarity
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                                                                                                                                                                                                                                                                                                                 Zwick M,
                                            Conservative
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nuclear
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19-MAR-1993;
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                                                                                                                                                                                                                                                                                                                                                                                                                                             acid transport system; NTS; cell surface receptor; cytosis; membrane; lysis moiety; transgenic animal; human disease;
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RESULT 1937
AAZ39489/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
Matches 15; Conserv
                                                                                                                                  20-MAR-1992;
19-MAR-1993;
14-DEC-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 antigen or is capable of entering a cell through cytosis; (c) a nucleic acid or macromolecular molecule binding molety (d) a molety that is capable of moving or initiating movement through a nuclear membrane; and/ or (e) a lysis molety that enables the transport of the entire complex from the cell surface directly into the cytoplasm of the cell. The NTS delivers nucleic acid into the cellular interior as well as the nucleus of specific cells. The NTS can be used to treat disorders by targeting specific nucleic acid accordingly. The NTS can also be used to create transgenic animals for assessing human disease, such as cancer, in an animal model. The NTS can be used in vitro with tissue culture cells which allows the role of various nucleic acids to be studied by targeting specific expression into specifically targeted tissue culture cells. The lysis agent within the NTS avoids the problem of endosomal/lysosomal
                                                                                                                                                                                                                                                                                              Nucleic acid transport system; NTS; cell surface receptor; nuclear membrane; lysis moiety; transgenic animal; human d nucleic acid delivery; cancer; ds.
                                                                                                                                                                                                                  30-NOV-1999
                                                                                                                                                                                                                                                                      Synthetic.
                                                                                                                                                                                                                                                                                                                                                     Target sequence
                                                                                                                                                                                                                                                                                                                                                                                                           AAZ39489;
                                                                                                                                                                                                                                                                                                                                                                                                                                     AAZ39489 standard; DNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    wei; 2000-038262/03
                                                     WPI; 2000-038262/03
                                                                                                        (BAYU ) BAYLOR
                                                                                                                                                                                         03-JUN-1995;
                                                                                                                                                                                                                                             US5994109-A
                                                                                                                                                                                                                                                                                                                                                                                 07-MAR-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         degradation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to a nucleic acid transport system (NTS) for delivering nucleic acid into a cell. The NTS contains but is not limit to S components: (a) the nucleic acid or a macromolecule to be delivered to a macromolecule to be delivered by a moiety that recognizes and binds to a cell surface receptor or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; Fig 15A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            assessing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Nucleic acid transport system, useful for creating transgenic animals for
                                                                                SLC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       281 TCTCTCTCTCTCTTT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCCCTCTCTCTCTT
                                                                              Cristiano
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              human disease such as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                (first entry)
                                                                                                                                  92US-00855389.
93WO-US002725.
93US-00167641.
                                                                                                         COLLEGE
                                                                                                                                                                                        95US-00460890
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9 A;
                                                                                                                                                                                                                                                                                                                                                    in a double stranded vector.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       93.8%;
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                                                                                                         MEDICINE
                                                                              Gottchalk
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 14.4;
Pred. No. 96
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                                                                              Sparrow
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              an animal model.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
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Nucleic acid transport system, useful for creating transgenic animals assessing human disease such as cancer in an animal model.

for

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AAA36641/c
ID AAA366
XX
AC AAA366
XX
DT 31-JUL
XX
DE Nuclei
XX
Transp
KW Transp
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                                                                                                                                                                                                                                        RESULT 1934
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                                                                                                                                                                                                Query Match
Best Local S
Matches 15
                                                                                                                                                                                                                                                                             The invention relates to a new method to screen for mature onset diabetes of the young (MODY). The method comprises detecting a mutation in the gene encoding insulin promoter factor I (IPRI), wherein heterozygosity for the mutation is indicative of MODY. The method may be used to determine if a patient with MODY symptoms has MODY4, to assess patients risk of developing MODY4, to assess the risk of a couple's progeny of inheriting MODY, and to assist in determining the genetic basis for other pancreatic disorders that might result from IPF-1 deficiency. Sequences
                                                                                                                                                                                                                                        Sequence 17
        Transporter system; nucleic acid delivery; gene therapy; cancer; carcinogenesis; cardiovascular disease; infection; ss.
                                                                                                                                                                                                                                                                                                                                                                                                          Detecting heterozygosity for insulin promoter factor 1 - useful to duthe presence of, or predisposition for, mature onset diabetes of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mature onset diabetes of the young; MODY; insulin promoter factor 1; IPF1; mutation; MODY4; pancreatic disorder; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAX01064 standard; DNA; 17
                                       Nucleic acid transporter system purine series sequence
                                                            31-JUL-2000
                                                                                 AAA36641;
                                                                                                     AAA36641 standard; cDNA; 17
                                                                                                                                                                                                                                                           AAX01063-66 represent primers used for amplifying the gene using a nested PCR priming scheme
                                                                                                                                                                                                                                                                                                                                                                             Example 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 1999-105636/09
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Habener JF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       24-JUN-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    IPF1 gene exon 1 amplifying primer S16
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (GEHO ) GEN
                                                                                                                                                                          1648 AGAGAGAAGGCTTCTG 1663
                                                                                                                                                         N
                                                                                                                                                                                                          Similarity
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                                                                                                                                                                                                                                       BP; 5 A; 4 C; 6 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  HOSPITAL CORP.
                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Stoffers DA;
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                                                            (first entry)
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                                                                                                      ВP
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                                                                                                                                                                                                          Pred. No.
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                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                         9e+02;
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                                                                                                                                                                                               Gaps
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AAA36639/c
ID AAA3663
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                                                                                                                                                                                                                                                                                                                           Matches
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Transporter system; nucleic acid delivery; gene therapy; cancer; carcinogenesis; cardiovascular disease; infection; ss.

transporter system target sequence #3

Synthetic.

Nucleic 31-JUL-2000 AAA36639;

acid

(first entry)

14-DEC-1993; 07-MAR-2000.

93US-00167641

AAA36639 standard; cDNA; 17

ВP

15:

Conservative

0

Mismatches

1;

Indels

0;

Gaps

0;

9e+02;

Similarity

93.8%;

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SXXXXXX
Query Match
Best Local :
                                                                                                                                                                                                                                                                                                             The present invention relates to a transporter system for delivering nucleic acid to a cell. The system comprises a nucleic acid binding complex, consisting of a binding molecule bonded non-covalently to the nucleic acid, and covalently to a surface ligand, and a lytic agent. The binding molecule is spermine or a spermidine derivative. Nucleotide sequences AAA36633-A36652 and peptide sequences AAA98456-Y98500 are used in the construction of the transporter system of the invention. The transporter system is used in gene therapy, particularly to deliver nucleic acids to hepatocytes, muscle cells or bone forming cells, e.g for treating cardiovascular disease, cancer, and infection. The transporter systems are also used to create transgenic animals (as models for human carcinogenesis or disease or for drug testing). Other uses include
                                                                                                                                                     transforming cells to produce proteins, or transfecting cells in vitro to study the function of the nucleic acid. The use of a surface ligand allows specific targeting of selected cells and tissues. The lytic agent provides for release of the nucleic acid into the cellular interior, from the endosomes, without requiring endosomal or lysosomal degradation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 System for transporting nucleic acid into cells, useful e.g. in gene therapy and for generating transgenic animals, comprises binding agent linked to nucleic acid, surface ligand and lytic agent.
                                                                                                Sequence 17 BP; 9 A; 0 C; 8 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; Fig 15a; 108pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2000-281993/24.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gottchalk S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20-MAR-1992;
19-MAR-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                14-DEC-1993;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sparrow
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COLLEGE MEDICINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                92US-00855389
93WO-US002725
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   Score 14.4;
Pred. No. 9
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                             DB 1;
                             Length 17;
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RESULT 1932
AAV91361/c
ID AAV9136
XX
                                                                                                                                                                                                                                                                                                                                                                                                                           CC amathod has been developed for the identification of a nucleic acid CC capable of modulating a process in a biological system. The method CC comprises: (a) introducing into the system a random library of nucleic CC acid catalysts (NAC) having a substrate binding domain (SBD), comprising CC arandom sequence, and a catalytic domain (CD); and (b) identifying NAC CC in systems where modulation has occurred and/or determining the sequence CC of at least part, of the SBDs in such systems. Nucleic acid molecules with CC endonuclease activity and catalytic activity, from the present invention, CC are used to modulate gene expression in plant and mammalian cells and to CC cleave target nucleic acid, particularly for treating systemic diseases CC caused by specific RNA, e.g. cancer, inflammation, psoriasis, non-hepatic CC acites and infection. They may also be used to detect genetic drift and CC mutations in diseased cells and to determine c-raf RNA. Specifically NACs CC used to treat cancer, restenosis, psoriasis or rheumatoid arthritis, or CC used to treat cancer, restenosis, psoriasis or rheumatoid arthritis, or CC used to treat cancer, restenosis, psoriasis or rheumatoid arthritis, or CC used to treat cancer, restenosis, psoriasis or rheumatoid arthritis, or CC used to treat cancer, restenosis, psoriasis or rheumatoid arthritis, or CC used to treat cancer, restenosis, psoriasis or shall y against nuclease and CC activity. AAV99922 to AAV93877 represent NACs that can be used in the CC method, specifically for modulating the expression of a Raf gene
                                                                                                                                                                                                                                                                                                    Query Match
Best Local :
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03-JUL-1997;
22-AUG-1997;
02-OCT-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Parry T,
Thompson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Identifying new catalytic nucleic acid especially ribozymes that cleave Raf restenosis, and also new ribozymes and used as antiviral agents and synthons.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; c-raf; A-raf; B-raf; hammerhead ribozyme; hairpin ribozyme; target; substrate; catalyst; modulation; expression; Raf gene; delivery screening; identification; synthesis; deprotection; purification; cance inflammation; psoriasis; non-hepatic ascites; infection; genetic drift; restenosis; rheumatoid arthritis; ss.
                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 177; Page 153; 259pp; English.
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05-NOV-1997;
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J, Workman CT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matulic-Adamic J, Reynolds M, Kisich K,
Beigelman L, Mcswiggen JA, Karpeisky A,
, Workman CT, Beaudry A, Sweedler D;
                                                                                                                                                                                                                                                                                                                                                                                   B₽;
                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         97US-0046059P.
97US-0049002P.
97US-0051718P.
97US-0056808P.
97US-0061321P.
97US-0061321P.
97US-0064866P.
97US-0068212P.
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Pred. No. 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        that modulates selected processes RNA for treating cancer,
                                                                                                                                                                                                                                                                                                    9e+02;
                                                                                                                                                                                                                                                                                                                                                                                   0 Other,
                                                                                                                                                                                                                                                                                                                             DB 1;
                                                                                                                                                                                                                                                                       1,
                                                                                                                                                                                                                                                                                                                          Length 17;
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                                                                                                                                                                                                                                                                       Gaps
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AAV91361 standard; RNA;

17

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17

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5228 CATGATGGAAGTCTGC

5243

Query Match Best Local S Matches 15

l Similarity 15; Conserv

Conservative

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Mismatches

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0

Gaps

0

0.3%;

Score 14.4; DB Pred. No. 9e+02;

Length Indels

Sequence

17

BP;

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w 9

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H S ۲, 0 DB 1; Other;

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CC A method has been developed for the identification of a nucleic acid CC capable of modulating a process in a biological system. The method CC comprises: (a) introducing into the system a random library of nucleic CC acid catalysts (NAC) having a substrate binding domain (SBD), comprising a random sequence, and a catalytic domain (CD); and (b) identifying NAC CC in systems where modulation has occurred and/or determining the sequence of at least part of the SBDs in such systems. Nucleic acid molecules with CC endonuclease activity and catalytic activity, from the present invention, are used to modulate gene expression in plant and mammalian cells and to CC cleave target nucleic acid, particularly for treating systemic diseases caused by specific RNA, e.g. cancer, inflammation, psoriasis, non-hepatic CC mutations in diseased cells and to determine c-raf RNA. Specifically NACs with RNA-cleaving activity that modulate expression of the Raf gene, are used to treat cancer, restenosis, psoriasis or rheumatoid arthritis, or generally any condition associated with the level of c-raf. Introduction of sequence and activity. AAV90922 to AAV93877 represent NACs that can be used in the method, specifically for modulating the expression of a Raf gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      09-MAY-1997;
09-JUN-1997;
03-JUL-1997;
02-AUG-1997;
02-OCT-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             02-OCT-1997;
05-NOV-1997;
19-DEC-1997;
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Parry T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Identifying new catalytic nucleic acid that modulates selected processes - especially ribozymes that cleave Raf RNA for treating cancer, restenosis, and also new ribozymes and modified nucleoside triphosphates
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 177; Page 153; 259pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            used
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            restenosis; rheumatoid arthritis; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human C-raf target site nucleotide position 2730
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     18-FEB-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Thompson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (RIBO-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 05-MAY-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         as antiviral agents and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RIBOZYME PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ç
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matulic-Adamic J, Reynoldi
Beigelman L, Mcswiggen JA,
, Workman CT, Beaudry A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         97US-0049002P
97US-0051718P
97US-0056808P
97US-0061321P
97US-0061324P
97US-0064866P
97US-0068212P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Reynolds M, Kisich K,
ggen JA, Karpeisky A,
udry A, Sweedler D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Bellon L;
Burgin A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Burgin
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leukemia, breast cancer, colon carcinoma, neuroblastoma and lung cancer.

The full length mRNAs containing these target sequences, encode aberant cellular proteins which are able to control cellular proliferation and are directly linked to a leukemic phenotype. These target sequences are identified by the ribozyme of the invention. The ribozymes is formed in a hammerhead motif, but may also be formed in the motif of a hairpin, hepatitis delta virus, group I intron or RNaseP-like RNA. These ribozymes may be used to inhibit the development or expression of a transformed phenotype in man and other animals by modulating expression of the corresponding gene. Cleavage of target mRNAs expressed in pre-neoplastic and transformed cells elicits inhibition of the transformed state.

Multiple drug resistance (mdr-1) mRNA specific ribozymes remove the mechanism of drug resistance used by transformed cells and thus enhances drug therapies for tumours. The ribozymes may also be used to study genetic drift and mutations within cells. (Updated on 25-MAR-2003 to
                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          14-MAY-1992;
14-MAY-1992;
26-AUG-1992;
26-AUG-1992;
26-AUG-1992;
26-AUG-1992;
26-AUG-1992;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The sequences given in AAQ51825-2266 represent areas of mRNAs which are associated with development or maintenance of chronic myelogenous leukemia (GML), promyelocytic leukemia, Burkitt's lymphoma, or acute lymphocytic leukemia, follicular lymphoma, B-cell acute lymphocytic leukemia, follicular lymphoma, B-cell acute lymphocytic leukemia, breast cancer, colon carcinoma, neuroblastoma and lung cancer, befull locked to the colon carcinoma, neuroblastoma and lung cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Breast cancer specific mRNA ribozyme cleavable nucleotide (1538).
                                                                                                                                                                                                                             Sequence 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 3; Fig 8; 69pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New enzymatic RNA molecules (ribozymes) - which cleave mRNA associated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     26-AUG-1992;
07-DEC-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           13-MAY-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  25-NOV-1993
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        tumours or mRNA expressed from gene encoding multiple drug
                                                       341
17
                                                                                                           l Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RIBOZYME PHARM INC.
                                              TTCCCTCACTGAGCGC
TTCCCTCAGTGAGCGC
                                                                                                                                                                                                                                BP; 4
                                                                                                              Conservative
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92US-00936422.
92US-00936531.
92US-00936532.
92US-00987131.
93US-0006122.
93US-00008910.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                92US-00882885.
92US-00936110.
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92US-00882885.
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                                                                                                                                    93.8%;
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(
                                                                                                           0,
                                                                                                                                          Score 14.4; DB 1;
Pred. No. 9e+02;
                                                                                                              Mismatches
                                                                                                                                                                                                                                T; 3
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                                                                                                                                       9e+02;
                                                                                                                                                                                                                                0 Other;
                                                                                                              1;
                                                                                                                                                                   Length 17;
                                                                                                              Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ribozymes
                                                                                                        Gaps
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밁 S

Human C-raf target site nucleotide position

18-FEB-1999

(first entry)

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RESULT 1930
AAV15097
ID AAV1509
                                                                                          RESULT 1931
AAV91362/c
ID AAV9136
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                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                               Query Match
Best Local (
                                                                                                                                                                                                                                                                                                             The present sequence represents a PCR primer for human apolipoprotein(a). The present invention also describes: (1) a vector containing human apolipoprotein(a) gene 5'.regulatory region DNA; (2) an isolated nucleotide sequence comprising at least 30 consecutive nucleotides of human apolipoprotein(a) gene 5'.regulatory region DNA or its complement; (3) a nucleotide sequence of at least 15 nucleotides capable of forming a DNA triplex with human apolipoprotein(a) gene 5'.regulatory region DNA; and (4) a transfected mammalian cell containing human apolipoprotein(a) gene 5'.regulatory region DNA, where the heterologous sequence codes for an enzyme. The new promoter sequence is useful in genetic engineering and gene therapy. The promoter can specifically be used for regulating the expression of apolipoprotein(a), which is useful in the treatment of
                                                                                                                                                                                                                                                                        Sequence 17
                                                                                                                                                                                                                                                                                                gene therapy. The promoter can spexpression of apolipoprotein(a), atherosclerosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Lawn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAV15097;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; Col 8; 16pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 1998-168413/15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    atherosclerosis; PCR primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human; apolipoprotein(a) gene 5'-regulatory region; expression;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human apolipoprotein(a)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20-MAY-1998
                                                                AAV91362;
                                                                                           AAV91362 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human apolipoprotein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15-DEC-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15-MAY-1995;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    and gene therapy and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 screening;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (STRD ) UNIV STANFORD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           lomo sapiens.
                                                                                                                                                                                       38 GCAGAAGAACCACTTC 53
                                                                                                                                                                                                                15;
                                                                                                                                                              N
                                                                                                                                                                                                                                Similarity
                                                                                                                                                              GTAGAAGAACCACTTC 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               regulation; genetic
                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                        BP; 7 A; 4 C; 3 G; 3 T; 0 U;
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                                                                                           RNA; 17
                                                                                                                                                                                                                               93.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (a) gene promoter - useful in genetic engineering
in the treatment of atherosclerosis.
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                                                                                                                                                                                                                  0;
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                                                                                                                                                                                                                                  Pred. No.
                                                                                                                                                                                                                                            Score 14.4;
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                                                                                                                                                                                                                     Mismatches
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                                                                                                                                                                                                                                  9e+02;
                                                                                                                                                                                                                                                                        0 Other;
                                                                                                                                                                                                                                             DB 1;
                                                                                                                                                                                                                                             Length 17;
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RESULT 1927
AAQ26760
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Best Local
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The 431/26 VH and VK antibody fragments represented in AAQ26757-58 are pref. for the prodn. of the fusion proteins of formula huTuMAK-L-beta-Gluc (1) (hTUMAK-humanised, tumour-specific monoclonal antibody, or its tumour-binding fragments); L= linker; beta-Gluc= human beta-glucuronidase). BetaGlc Linker 1 and betaGlc Linker 2 oligonucleotides are given in AAQ26759-60. Hinge 1 and hinge 2b oligonucleotides are given in AAQ26759-60. Hinge 1 and hinge 2b oligonucleotides are given in AAQ26761-62. (1) are used to activate prodrugs. The antibody component provides for specific targetting to tumours while the beta-Gluc component activates a suitable prodrug shd (1) is useful in tumour treatment or diagnosis. (Updated on 25-MAR-2003 to correct PN field.) (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  identified as molecule that modulates biological activity of native quadruplex DNA. (M1) is useful for identifying molecule that modulates biological activity of native quadruplex DNA (claimed). (M1) is useful for identifying molecule that modulates biological activity of native quadruplex DNA, where the identified molecule stabilizes quadruplex structure which can exert a therapeutic effect for certain cell proliferative disorders e.g., colorectal cancer, leukemia's, Hodgkin's disease, etc. This sequence corresponds to a test quadruplex molecule used in the method of the invention.
                                                                                                                                                                                                                                                                                                         Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Seemann
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (BEHW )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28-FEB-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic.
                                                                                                                                                                                                                                                                                                                                                    Fusion protein for diagnosis specific monoclonal antibody
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 10-FEB-1992;
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11-FEB-1993
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                                                                                                                                                                                                                                                                                                         (C); Page 5; 34pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  HOECHST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BEHRINGWERKE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   huTuMAK-L-beta-Gluc; monoclonal antibody; tumour; linker;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Linker
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Bosslet K,
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(first en
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 92EP-00102197.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cDNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           hinge; prodrug;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Czech
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Pred. No. 8
                                                                                                                                                                                                                                                                                                                                                      (fragment),
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                                                                                                                                                                                                                                                                                                                                                 treatment - comprises humanised, tumour-agment), linker and beta-glucuronidase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Kolar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8.1e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Hoffmann
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25-MAR-2003 26-MAY-1994 AAQ52078; AAQ52078

(revised) (first entry)

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AAQ43610/c
                                                                                       Matches
                                                                                                  Query Match
Best Local
                                                                                                                                                     The sequence is that of a probe based on a unique nucleic acid sequence in the Chlamydia trachomatis major outer membrane protein (MOMP) gewhich is present in all 15 serotypes of C. trachomatis. It correspond nucleotides 747-763 of the MOMP gene. It may be used for detecting amplifying the MOMP gene of C. trachomatis, and can detect all 15 serotypes of C. trachomatis. Since the MOMP gene is unique for C. trachomatis, there will be no cross-hybridisation to nucleic acid fother bacteria. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                       Probe for detecting and isolating 15 - comprises specific nucleic acid seq nucleotide, labelled and ribonucleic
                                                                                                                                  Sequence 17
                                                                                                                                                                                                                                                        Claim 1; Page 5; 19pp; English.
                                                                                                                                                                                                                                                                                                                                      WPI; 1993-190117/24.
                                                                                                                                                                                                                                                                                                                                                          Malinowski DP,
                                                                                                                                                                                                                                                                                                                                                                                                      11-DEC-1991;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Isolation; amplification; major outer membrane protein gene; MOMP; 15 serotypes; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Chlamydia
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11-OCT-1993
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                                                                                                                                                                                                                                                                                                                                                                                                                            02-DEC-1992;
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                                                                3964 ACCTCCAGCACTCCAA 3979
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                                                                                                                                                                                                                                                                               membrane
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                                                                                                   Similarity
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                                                                                                                                  BP;
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(first entry)
                                                                                                                                                                                                                                                                              protein gene.
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                                                                                                                                                                                                                                                                                                                                                                                                                            92EP-00310998
                                                                                                                                  2 A; 3 C; 7 G;
                                                                                                                                                                                                                                                                                                                                                          Fraiser MS,
                                                                                                  0.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 serotype detection
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                                                                                      <u>0</u>
                                                                                                            Score 14.4;
                                                                                                   Pred.
                                                                                                                                                                                                                                                                                                                                                         Jurgensen
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                                                                                                                                  5 T; 0
                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                    15 serotype(s) of chlamydia trachomatis
sequences, modified backbone,
                                                                                                   No.
                                                                                                                                                                                                                                                                                          acid
                                                                                                                                  U; 0 Other;
                                                                                                   9e+02;
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                                                                                                            DB 1;
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                                                                                                            Length
                                                                                      Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADK12811/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 1925
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
Matches 15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         for HuR. The complex formation of an ARE-containing mRNA with an HuR protein induces the expression of various disease causing/mediating substances, e.g. cytokines, substances, e.g. cytokines, proteins inflammatory acting substances, e.g. cytokines, proteins provent factors, proto-oncogenes and viral proteins. Agents which inhibit complex formation may thus prevent the expression of such substances and may be used in the treatment of e.g. inflammatory diseases. The invention provides an assay for identifying compounds with an inhibitory effect on selected HuR-ARE target interactions. A pharmaceutical composition comprising an agent identified by the assay can be used to treat a disorder having an aetiology associated with the production of a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present sequence is that of an AU-rich element (ARE) motif. A 2-dimensional FIDA anisotropy analysis was performed to determine the affinity of human Hu-antigen R (HuR) for this, and other, ARES. The Kd value of a non-soluble form of full-length HUR ADE85987 for the ARE was 23.47 +/- 8.92 nM. The ARE did not bind a soluble form of full-length HUR. The RNA sequence motif NNUUNNUUU was identified as the binding site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Auer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (NOVS)
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                                                                                                                                                                                                                                                                                                                                                                                                                  Human NAC-1 gene-specific RT-PCR primer #3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2003-833795/77
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               06-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADK12811 standard; DNA; 16 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4415.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         tifying an agent having inhibitory effects RE-containing mRNA and HuR protein, useful aberrant production of a cytokine, growth
                                                                                                                                                                                                           sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16
                                                                                                                                                                                                                                                                                                                                       NAC-1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     procern.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TAATAATAATATTAAT 4430
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          growth factor proto-oncogene or a viral protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first
                                                                                                                                                                                                                                                                                                                                       NAC-1
                                                                                                                                                                                                                                                                                                                                   associated disorder; drug
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      entry)
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Pred. No. 8.1e+02;
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                                                                                                                                                                                                                                                                                                                                   addiction;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 16;
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                                                                                                                                                                                                                                                                                                                                       cancer;
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                                                                                                                                                                                                                                                                                                                                   PCR;
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RESULT 1926
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Best Local Similarity
Matches 15; Conserv
                                                                                  Identifying molecule that modulates biological activity of native quadruplex DNA, by contacting test quadruplex DNA with candidate molecule, determining presence or absence of interaction between t molecule and test quadruplex DNA.
                                                                                                                                                                                                                                                                                                                                      ss; cytostatic; quadruplex DNA; stabilization; cell proliferative disorder; colorectal cancer
                                                                                                                                                                                                                                                                                                                                                                         T.I.M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 16 BP; 2 A; 5 C; 6 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention comprises the amino acid and coding sequences of the human NAC-1 protein. The DNA and protein sequences of the invention are useful for treating or preventing a disorder associated with decreased or increased expression or activity of human NAC-1. The DNA and protein sequences are also useful for treating drug addiction and cancer. The present DNA sequence represents an RT-PCR primer for the human NAC-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Zhang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  08-AUG-2001; 2001US-0311034P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         02-AUG-2002;
                                                                                                                                            WPI; 2004-239051/22.
                                                                                                                                                                                                                                    20-AUG-2003; 2003WO-US026267
                                                                                                                                                                                                                                                                                  WO2004019283-A2
                                                                                                                                                                                                                                                                                                       Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                           ADO30701 standard; DNA; 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2003-787024/74.
                                                                                                                                                                 Ebbinghaus SW,
                                                                                                                                                                                                             20-AUG-2002; 2002US-0404965P
                                                                                                                                                                                                                                                           04-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                15-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                      ADO30701;
                                                                                                                                                                                        (CYTE-) CYTERNEX INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AGCCCACTTCCAGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQ ID NO 311; 96pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
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                                                                                                                                                                 Hurley
                                                                                                                                                                                                                                                                                                                                                                         quadruplex complementary
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                                                                                                                                                                 Siddiqui-Jain
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Pred. No. 8.
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                                                                                                                                                                                                                                                                                                                                         cancer; leukemia;
                                                                                                                                                                                                                                                                                                                                                                         sequence
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The invention relates to a method of identifying (M1) a molecule that modulates biological activity of native quadruplex DNA, by contacting test quadruplex DNA with candidate molecule, and determining presence absence of interaction between candidate molecule and test quadruplex DNA, where candidate molecule that interacts with test quadruplex DNA.

18 õ Disclosure; Page 7; 43pp; English

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ABN81201
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Best Local
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           microsateIlite sequences given in GenBank AP077550-AF077598. (I), the complementary sequence or fragment and the encoded polypeptide are useful for mapping of the genome of various species of shrimp. Mapping the genome of Penaeus is useful for determining whether a test shrimp, preferably litopenaeus vannemei, has a genotype associated with a phenotypic trait such as resistance to Taura Syndrome Virus (TSV) infection. The present sequence is that of a probe, useful in examples of the invention. (Updated on 06-AUG-2003 to correct OS field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     receptor protein is designated SHTR2B. SHTR2B is a G protein coupled receptor (GPCR) which comprises 7 transmembrane regions. The specification describes a method for using a specific inhibitor of the SHT2B receptor to prepare a composition for treating a solid epithelial tumour in which the SHT2B gene is overexpressed. Inhibition of the SHT2 receptor blocks cell proliferation and invasion. Inhibitors of the invention are used to treat or prevent uncological tumours (particularly of prostate, bladder and kidney), but also cancers of the breast, lung and colon. The detection of overexpression of SHTR2B, or the related mRNA, is used for in vitro detection of tumorous cells.
                                                                                                                                           The invention relates to an isolated polynucleotide (I) of the giant black tiger prawn, Penaeus monodon or expressed sequence tags of the pacific white shrimp, Litopenaeus vanmened (ABN00997-ABN81172), both containing microsatellites sequences including those P. monodon
                                                                                                                                                                                                                                                                                                                                                                                                                                             10-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Litopenaeus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Giant black tiger prawn; Penaeus monodon; pacific white shrim; Litopenaeus vannamei; shrimp; microsatellite sequence; genome Taura Syndrome Virus; TSV; infection; probe; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            06-AUG-2003
16-JUL-2002
                                                                                                                                                                                                                                                          Polynucleotides of shrimp are useful characterizing of the genome of various
                                                                                                                                                                                                                                                                                                             WPI; 2000-423422/36.
                                                                                                                                                                                                                                                                                                                                          Alcivar-Warren A,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Litopenaeus
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         5HT2B receptor mRNA by reverse-transcription PCR. The human 5HT2B
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(first entry)
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Pred. No. 1.
                                                                                                                                                                                                                                                             various
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                                                                                                                                                                                                                                                                                                                                              Fan
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                                                                                                                                                                                                                                                          species
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                                                                                                                                                                                                                                                                                                                                              Garcia
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           mapping;
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RESULT 1923
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ADE86001/c
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Best Local
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                                                                                                                                                                                                                                     The present invention relates to the coding sequence of human Crean which is a protein containing a repetitive 86 amino acid motif. The protein is a transcriptional control factor, and is a conjugate of retinoblastoma protein (Rb). The present sequence is the an intronjunction in the coding sequence of the invention
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                                                                                                                                                                                                                                                                        The present invention relates to the coding which is a protein containing a repetitive 8
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Human; AU-rich element; antiinflammatory; Hu-antigen
                    AU-rich element
                                         29-JAN-2004
                                                             ADE86001;
                                                                                 ADE86001 standard; RNA; 16
                                                                                                                                                                                                                    Sequence 16
                                                                                                                                                                                                                                                                                                    Disclosure; Fig 3B; 35pp; Chinese.
                                                                                                                                                                                                                                                                                                                                    New retinoblastoma protein binding protein, its preparation
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                                                                                                                                                                                                                                                                                                                                                                                                                                         07-JAN-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; Creaml;
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                                                                                                                                                                                                                                                                                                                           application.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            retinoblastoma
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                                                                                                                                                                                      Similarity
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                                                                                                                                                                                                                    BP; 4 A;
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                                                                                                                                                                            Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                           2000CN-00111426
                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           protein; intron-exon junction;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     repeat; transcriptional control factor; Rb;
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                    motif.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DNA;
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                                                                                                                                                                                     93.8%;
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                                                                                                                                                                                                Score 14.4;
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Pred. No. 1.7e+03;
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15-JUL-2004

(first entry)

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The invention relates to oligonucleotides anti-sense to an initiation codon, coding region, 5' or 3' intron-exon junction, intron or region codon, coding region, 5' or 3' intron-exon junction, intron or region codon, coding region, 5' or 3' intron-exon junction, intron or region codon, coding region of the 5'-end or 3'-end of a nucleic acid target codon from a gene encoding interleukin (IL)-4 receptor, interleukin (IL)-5 receptor, CCR1, CCR3, Ectaxin-1, RANTES, MCP4, CD23, ICAM, VCAM, CC tryptase a, tryptase b, PDE4 A, PDE4 B, PDE4 C or PDE4 D. The invention CC also relates to a method of screening a candidate compound that binds to come or more nucleic acid target(s) or expressed product(s), for the CC prevention and/or treatment of a respiratory or lung disease. The CC oligonucleotides are useful for reducing or inhibiting expression of a CC gene or mRNA encoding interleukin-4 receptor, interleukin-5 receptor, CC CCR1, CCR3, Ectaxin-1, RANTES, MCP4, CD23, ICAM, VCAM, tryptase a, CC tryptase b, PDE4 A, PDE4 B, EDE4 C, or PDE4 D. The oligonucleotides are cuseful for preventing or treating a respiratory or lung disease. The CC respiratory or lung disease as associated with hyper-responsiveness to CC and/or increased levels of, adenosine and/or levels of adenosine A CC receptor(s), and/or asthma and/or levels of adenosine A CC is chosen from airway inflammation, allergy, asthma, impeded respiration, CC cystic fibrosis (CF), chronic obstructive pulmonary disease (COPD), and control obstructive pulmonary disease (COPD),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Novel single or multiple target oligonucleotide anti-sense to e.g. Constitution codon, intron of respiratory disease-relevant gene e.g. CORANTES, MCP4, useful for prophylaxis or treating respiratory disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          lung disease; hyper-responsiveness; adenosine; adenosine A receptor; asthma; lung allergy; inflammation; inflammatory disease; airway inflammation; allergy; respiration; cytic fibrosis; CF; chronic obstructive pulmonary disease; COPD; allergic rhinitis; acute respiratory distress syndrome; pulmonary hypertension; lung inflammation; bronchitis; airway obstruction; bronchoconstriction.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 2; SEQ ID NO 764; 174pp; English
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Shahabuddin
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allergic rhinitis, acute respiratory distress syndrome, pulmonary hypertension, lung inflammation, bronchitis, airway obstruction or bronchoconstriction. This sequence represents an oligonucleotide of the control of 
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23-APR-2002;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGUILAR D.
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in S, Lu H,
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ong H;
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ADO44681/c
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codon, coding region, 5' or 3' intron-exon junction, intron or region with 2-10 nucleotides of the 5'-end or 3'-end of a nucleic acid target chosen from a gene encoding interleukin (IL)-4 receptor, interleukin (IL)-5 receptor, CCR1, CCR3, Eotaxin-1, RANTES, MCP4, CD23, ICAM, VCAM, tryptase a, tryptase b, PDE4 A, PDE4 B, PDE4 C or PDE4 D. The invention also relates to a method of screening a candidate compound that binds to one or more nucleic acid target(s) or expressed product(s), for the prevention and/or treatment of a respiratory or lung disease. The oligonucleotides are useful for reducing or inhibiting expression of a gene or mRNA encoding interleukin-4 receptor, interleukin-5 receptor,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; ss; interleukin-4 receptor; IL-4; interleukin-5 receptor; IL-5; CCR1; CCR3; Botaxin-1; RANTES; MCP4; CD23; ICAM; VCAM; tryptase a; tryptase b; PDE4 A; PDE4 B; PDE4 C; PDE4 D; respiratory disease; lung disease; hyper-responsiveness; adenosine; adenosine A receptor; asthma; lung allergy; inflammation; inflammatory disease; allergy; inflammatory disease; CPD; allergic rhinitis; creciptor; control obstructive pulmonary disease; COPD; allergic rhinitis; acute respiratory distress syndrome; pulmonary hypertension;
                                                                                                                                                                                                                                                                                                                 Nyce JW, Sandı
Shahabuddin S,
                                                                                                                                                                                                                             RANTES,
                                                                                                                                                                                                                                            Novel single or multiple target oligonucleotide anti-sense to e.g. initiation codon, intron of respiratory disease-relevant gene e.g. CCR1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      23-APR-2002; 2002WO-US013135.
23-APR-2002; 2002WO-US013143.
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                                                                                                                                      The invention relates to oligonucleotides anti-sense to an initiation codon, coding region, 5' or 3' intron-exon junction, intron or region
                                                                                                                                                                                  Claim 2; SEQ
                                                                                                                                                                                                                                                                                        WPI; 2004-293804/27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                11-MAR-2004.
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                                                                                                                                                                                                                                                                                                                                                                                                                                             (TANG/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (NYCE/) NYCE J W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       lung inflammation; bronchitis; airway obstruction; bronchoconstriction
                                                                                                                                                                                                                                                                                                                                                                                                SHAH/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1155 CTCTGCAAGGAGCTCT 1170
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MILLER S.
SHAHABUDDIN
LU H.
CONG H.
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                                                                                                                                                                                                                              MCP4, useful
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in S, Lu H, Cong
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                                                                                                                                                                               ID NO 47; 174pp;
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                                                                                                                                                                                                                             prophylaxis
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Pred. No. 1.1e+03;
                                                                                                                                                                                  English
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                                                                                                                                                                                                                              treating
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                                                                                                                                                                                                                              respiratory disease e.g.
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Best Local Similarity
Matches 15; Conserv
New compound targeted to a nucleic acid molecule encoding inhibitors apoptosis (IAP)-like and inhibits expression of IAP-like, useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CCR1, CCR3, Eotaxin-1, RANTES, MCP4, CD23, ICAM, VCAM, tryptase a, tryptase b, PDE4 A, PDE4 B, PDE4 C, or PDE4 D. The oligonucleotides are useful for preventing or treating a respiratory or lung disease. The respiratory or lung disease is associated with hyper-responsiveness to and/or increased levels of, adenosine and/or levels of adenosine A receptor(s), and/or asthma and/or lung allergies associated with inflammation or an inflammatory disease. The respiratory or lung disease is chosen from airway inflammation, allergy, asthma, impeded respiration, cystic fibrosis (CF), chronic obstructive pulmonary disease (COPD), allergic rhinitis, acute respiratory distress syndrome, pulmonary hypertension, lung inflammation, bronchitis, airway obstruction or bronchoconstriction. This sequence represents an oligonucleotide of the
                                            WPI; 2004-399725/37.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cytostatic; gene therapy; inhibitors of apoptosis-like; IAP-like, IAP-like modulator; IAP-like associated disorder; hyperproliferative disorder; human; antisense oligonucleotide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human inhibitor of apoptosis-like antisense oligonucleotide seqid 142.
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                                                                                                                               22-NOV-2002; 2002US-00303325.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              antisense technology;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 12-AUG-2004
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                                                                                                                                                          22-NOV-2002; 2002US-00303325
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                                                                      Dobie KW;
                                                                                                    PHARM INC
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                                                                                                                                                                                                                                                                                         /note= "
15. .20
                                                                                                                                                                                                                                                                                                                                                                are 5-methylcytidines"
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note= "OTHER= Phosphorothioate backbone. All cytidines
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0.3%;
                                                                                                                                                                                                                                                                                                       _base= OTHER
e= "OTHER= 2'-O-Methoxyethyl
                                                                                                                                                                                                                                                 "OTHER=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 14.4;
Pred. No. 1.
                                                                                                                                                                                                                                               2'-0-Methoxyethyl
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 20;
                                                                                                                                                                                                                                                 (2'-MOE)
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RESULT 2145
ADO52200
ID ADO5220
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches 15;
                                                                                                                                                                                          modified_base
                                                                                                                                                                                                                                                        modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                    cytostatic; gene therapy; inhibitors of apoptosis-like; IAP-like; IAP-like modulator; IAP-like associated disorder; hyperproliferative disorder; human; antisense oligonucleotide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human inhibitor of apoptosis-like antisense oligonucleotide seqid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 20 BP; 8 A; 3 C; 7 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       modulating the expression of IAP-like or for treating, e.g. hyperproliferative disorder.
                                                                                                              US2004102395-A1
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                                                                                                                                                                                                                                                                                                                                       modified_base
                                                                                                                                                                                                                                                                                                                                                                                          Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADO52200 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                        sapiens.
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/note= "OTHER= 2'
15. .20
                                                                                                                                                                                                                                                                         /mod_base= OTHER
/note= "OTHER= Phosphorothioate backbone. All cytidines
are 5-methylcytidines"
                                                                                                                                                                                                                                                                                                                      /*tag=
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                                                                                                                                                                         *tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.3%;
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e= "OTHER= 2'-O-Methoxyethyl (2'-MOE) nucleotides"
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Pred. No. 1
                                                                                                                                                                                                           2'-O-Methoxyethyl (2'-MOE) nucleotides"
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22-NOV-2002; 2002US-00303325 22-NOV-2002; 2002US-00303325

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                    RT-PCR; mouse; murine; primer; ss; Mm28913; immunoregulation; immunity balance; Th1 helper T cell; Th2 helper T cell; C/EBP (alpha); GB7A-4; Notch-4; IRS-4; placental Ca2+ binding protein; CD6; Galactin-3; CD97; DEC1; Onzin; GBP3; CD49b; CD29; BMP-10; integrin(beta)7; PCSK3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New compound targeted to a nucleic acid molecule encoding inhibitors apoptosis (IAP)-like and inhibits expression of IAP-like, useful for modulating the expression of IAP-like or for treating, e.g. hyperproliferative disorder.
WPI; 2004-434540/41.
                                                                                                                                                                                      JP2004147534-A.
                                                                                                                                                                                                                                                                      GP49A; CTLA-2(alpha); TDAG51; CD53; laminin(alpha)5; PPAR(gamma)
CRABP2; CYP11A(P450scc); 20(alpha)-hydroxysteroid dehydrogenase;
                                                                                                                                                                                                                                                                                                                                                                                           RT-PCR primer for amplifying murine CTLA-2-alpha cDNA Seq 69
                                                                                                                                                                                                                                                                                                                                                                                                                                12-AUG-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADP74079;
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                               (NISH/) NISHIMURA T. (TORA) TORAY IND INC.
                                                                                 29-OCT-2002;
                                                                                                                   29-OCT-2002; 2002JP-00314957
                                                                                                                                                    27-MAY-2004.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local
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                                                                                   2002JP-00314957
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Pred. No. 1.1e+03;
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RESULT 2147
ADP12177
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20(alpha) - the method further involves using the gene of the functional molecule of helper T cell, a gene product, an antibody of the gene product and at least one of the cells transduced with the gene as an antibody of the gen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              transplant rejection; immune system; rheumatoid arthritis; lupus; inflammatory bowel disease; multiple sclerosis; HIV; AIDS; ss; probe
                                                                                                                                                                                                                                                                                                                    24-APR-2002; 2002US-00131831
20-DEC-2002; 2002US-00325899
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                                                                                                                                                                                                                                                                                                                                                                                          24-APR-2003; 2003WO-US012946
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Taqman probe set 2 #35
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADP12177 standard; DNA; 20 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               index to evaluate the Th1/Th2 ratio. This oligonucleotide sequence is an RT-PCR primer used to amplify the murine cDNA sequence of a Th2 helper T
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This invention relates to
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Pred. No. 1
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· Spartering Comment

Diagnosing or monitoring transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic islet, lung, bone marrow or stem cell transplant rejection, in an individual, comprises detecting the expression level of

WPI; 2004-400724/37.

Claim 58; SEQ ID NO 2186; 1762pp; English

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RESULT 2148
AD056998
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Best Local S
Matches 15
The invention relates to a method of identifying a subject at risk of melanoma comprising detecting the presence or absence of one or more polymorphic variations associated with melanoma in a nucleic acid sample from a subject. Preventing melanoma in a subject comprises detecting the presence or absence of one or more polymorphic variations associated with melanoma in a nucleic acid sample from a subject; and administering a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention relates to diagnosing or monitoring transplant rejection, e.g. cardiac or kidney transplant rejection, in an individual comprises detecting the expression level of one or more genes. The methods, system and kits are useful in diagnosing or monitoring transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic slet, lung, bone marrow or stem cell transplant rejection, in an individual. The method is also useful in assessing the immune status of an individual. The methods are also useful in diagnosing and monitoring diseases that involve the immune system, e.g. rheumatoid arthritis, lupus, inflammatory bowel diseases, multiple sclerosis, HIV/AIDS or viral, bacterial or fungal infection. The present sequence represents a probe for a 50 mer oligonucleotide marker for diagnosis and monitoring of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human CARK/FPGT
                                                                                                                                                           Identifying a subject at risk of melanoma, useful for treating melanoma comprises detecting the presence or absence of one or more polymorphic variations associated with melanoma in a nucleic acid sample from a
                                                                                                                                                                                                                                                                                                                              06-NOV-2002; 2002US-0424475P.
23-JUL-2003; 2003US-0489703P.
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                                                                                                                                                                                                                                                             Nelson MR,
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Pred. No. 1.1e+03;
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CARK; FPGT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human; ss; antisense; squalene synthase; farnesyl diphosphate farnesyl transferase 1; cholesterol; atherosclerosis; coronary heart disease; hypercholesterolaemia.
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16. .20
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/mod_ba
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No. 1.1e+03
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The invention relates to a new compound 8-80 nucleobases in ler antisense oligonucleotide) targeted to a nucleic acid molecule squalene synthase (also known as farnesyl diphosphate farnesyl transferase 1), where the compound specifically hybridises with

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New oligonucleotide synthase, useful in

targeted to diagnosing

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Matches 15
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                                                           Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         nucleic acid molecule encoding human squalene synthase appearing as ADN31611 and inhibits the expression of squalene synthase. Also included are inhibiting the expression of squalene synthase, neells or tissues, screening for a modulator of squalene synthase, a diagnostic method for identifying a disease state, a kit or assay device comprising the compound and treating an animal having a disease or condition associated with squalene synthase. The compound and methods are useful in diagnosing and treating disorders related to cholesterol biosynthesis e.g. atherosclerosis, coronary heart disease and hypercholesterolaemia. The present sequence is an antisense oligonucleotide of the invention.
                                                                                                                               The present invention is directed to antisense oligonucleotides which are targeted to mucosa-associated lymphatic tissue (MALT) 1 and which modulate the expression of MALTI. The invention is useful for preparing a composition for treating hyperproliferative disorder such as cancer. The invention acts as a cytostatic agent. The invention is also useful in gene therapy. The present sequence is human MALTI target oligonucleotide. This sequence is used in the exemplification of the invention.
                                                                                                                                                                                                                                                                                         New oligonucleotide compound that inhibits expression of MALT1, useful for preparing a composition for treating hyperproliferative disorder,
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                                                                                                     Sequence
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les 15; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New oligonucleotide compound that inhibits expression of MALT1, useful for preparing a composition for treating hyperproliferative disorder,
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Synthetic.
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                                                                                                                                                                          Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  for preparing a
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5-methyl cytidines"
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                                                                                     0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             -methoxyethyl
                                                                                                                                                                          G; 7 T; 0 U; 0 Other;
                                                                                              3 14.4; DB -,
NO. 1.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (2'-MOE) nucleotides"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (2'-MOE)
                                                                                                                                   <u>_</u>
                                                                                                                              Length
                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               nucleotides"
                                                                                                                                   20;
                                                                                     0
                                                                                     Gaps
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0,

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RESULT 2153
ADP43376
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ADP43453/c
                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
Matches 15; Conserv
                                                                                                                                                                                                                                                                                                                                            The invention relates to a compound targeted to a nucleic acid molecule encoding SLC26A2. The antisense oligonucleotide is useful for inhibiting the expression of SLC26A2 in cells or tissues to prevent or treat diseases associated with aberrant SLC26A2 expression, such as chondrodysplasia. In addition, the compound is used for diagnostics, prophylaxis, or as research reagents or kits. The present sequence represents a human SLC26A2 target sequence.
                                                                                                   Human SLC26A2
                                                                                                                                                                       ADP43376 standard; DNA;
                                                                                                                                                                                                                                                                                                                       Sequence 20 BP; 9 A; 6 C; 3 G; 2 T; 0 U; 0 Other;
                    US2004110155-A1.
                                                     Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New antisense oligonucleotides for modulating SLC26A2 expression, useful for diagnosing, preventing or treating diseases associated with aberrant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US2004110155-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human SLC26A2 target sequence ISIS 199063.
                                                                                                                          26-AUG-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 15; SEQ ID NO 117; 57pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Dobie
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10-DEC-2002; 2002US-00317249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           26-AUG-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADP43453 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (ISIS-) ISIS PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               10-DEC-2002; 2002US-00317249.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10-JUN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ss; human; SLC26A2;
                                                                                                                                                                                                                                            4786 TCAGTTCTTTGGTTGG 4801
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2004-440343/41.
                                                                                                                                                                                                                                17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3
                                                                                                                                                                                                                                                                                                                                                                                                                                                            expression, such as chondrodysplasia.
                                                                                                                                                                                                                               TGAGTTCTTTGGTTGG 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sipes TB
                                                                                                                                                                                                                                                                            Conservative
                                                                                                                         (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first
                                                                                                 antisense oligonucleotide ISIS 282956.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DNA;
                                                                                                                         entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               chondrodysplasia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           entry)
                                                                                                                                                                                                                                                                                      0.3%;
                                                                           SLC26A2; chondrodysplasia.
                                                                                                                                                                       20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        20
                                                                                                                                                                       쁑
                                                                                                                                                                                                                                                                           0
                                                                                                                                                                                                                                                                           Score 14.4; D
Pred. No. 1.1e
0; Mismatches
                                                                                                                                                                                                                                                                                      .1e+03;
                                                                                                                                                                                                                                                                                               DB 1; Length 20
                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                           0
                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                           0
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RESULT 2154
ADP85706
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Best Local S
Matches 15
                                                                                                     modified_base
                                                                                                                                                                                                                                             Homo sapiens.
Synthetic.
                                                                                                                                                                                                                                                                                           Antisense; Talin; cardiac disorder;
                                                                                                                                                                                                                                                                                                                            Human Talin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 20 BP; 2 A; 3 C; 6 G; 9 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 encoding SLC26A2. The antisense oligonucleotide is useful for inhibithe expression of SLC26A2 in Cells or tissues to prevent or treat diseases associated with aberrant SLC26A2 expression, such as chondrodysplasia. In addition, the compound is used for diagnostics,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New antisense oligonucleotides for modulating SI for diagnosing, preventing or treating diseases SLC26A2 expression, such as chondrodysplasia.
                     10-JUN-2004.
                                                                                                                                                  modified_base
                                                                                                                                                                                                          modified_base
                                                                                                                                                                                                                                                                                phosphorothioate;
                                                                                                                                                                                                                                                                                                                                                     26-AUG-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to a compound targeted to a nucleic encoding SLC26A2. The antisense oligonucleotide is useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2004-440343/41.
                                           US2004110705-A1
                                                                                                                                                                                                                                                                                                                                                                            ADP85706;
                                                                                                                                                                                                                                                                                                                                                                                                  ADP85706 standard; DNA; 20 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            prophylaxis, or as research reagents or kits. The present sequence represents a human SLC26A2 antisense oligonucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Dobie
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               10-DEC-2002; 2002US-00317249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10-DEC-2002; 2002US-00317249.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4786
                                                                                                                                                                                                                                                                                                                                                                                                                                                            4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ISIS PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCAGTTCTTTGGTTGG 4801
                                                                                                                                                                                                                                                                                                                                                                                                                                                            TGAGTTCTTTGGTTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sipes TB;
                                                                                                                                                                                                                                                                                                                             antisense oligonucleotide,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQ ID NO 40; 57pp; English.
                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                      /*tag=
                                                                                                     16. .20
                                                                                                                                                                                                                      Location/Qualifiers
                                                                                                                                                             /mod_base= OTHER
/note= "Phosphorothioate backbone where all cytidine
residues are 5-methylcytidines"
                                                                                                                                       /*tag=
                                                                 'mod_base= OTHER
'note= "2'-methoxyethyl
                                                                                                                note=
                                                                                                                             mod base=
                                                                                                                                                                                                                                                                                         muscular disorder; haematologic disorder;
hyperproliferative disorder; cancer; human;
                                                                                                                                                                                                                                                                                  88.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  93.8%;
                                                                                                                "2' -methoxyethyl
                                                                                          ი
                                                                                                                                                                                                                                                                                                                                                                                                                                                            19
                                                                                                                           OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 14.4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                                               ISIS #109150
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1.1e+03;
                                                                  (2'-MOE)
                                                                                                                 (2'-MOE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SLC26A2 expression, es associated with a
                                                                  nucleotides'
                                                                                                                nucleotides"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                acid molecule
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     for inhibiting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           aberrant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       useful
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11-SEP-2003; 2003US-00415463.

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RESULT 2155
ADP96523/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              invention is useful for treating a disease or condition associated with Talin such as a disease or condition e.g. muscular, haematologic, cardiac or hyperproliferative disorder such as cancer. The present sequence is an antisense oilgonucleotide targeted to human Talin DNA.
                      New antisense oligonucleotides which inhibit the expression of dual specific phosphatase 6, useful for e.g. treating disease or condition associated with the expression of dual specific phosphatase.
                                                                                                                                                                                                                                                                                                   Human; antisense; ss; dual specific phosphatase 6; DUST6; MAP kinase; extracellular signal related kinase; ERK; hyperproliferative disorder developmental disorder; neural disorder; apoptotic disorder;
Example 15; SEQ ID NO 92; 54pp; English.
                                                                       WPI; 2004-499137/47.
                                                                                                                                                                  18-JUL-2002; 2002US-00199221
                                                                                                                                                                                            09-FEB-2004; 2004US-00774888
                                                                                                                                                                                                                    01-JUL-2004.
                                                                                                                                                                                                                                            US2004127451-A1
                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                         chromosome 12q22-23.
                                                                                                                                                                                                                                                                                                                                                   Human DUSP6 antisense target region #6
                                                                                                                                                                                                                                                                                                                                                                              23-SEP-2004
                                                                                                                                                                                                                                                                                                                                                                                                                            ADP96523 standard; cDNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to acid molecule encoding hu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New compounds, particularly antisense oligonucleotides targeted nucleic acid encoding talin, useful for treating muscular, cardi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2004-440384/41.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Bennett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      30-OCT-2000;
30-OCT-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (BENN/)
                                                                                                                    (MONI/) MONIA B P.
(COWS/) COWSERT L M.
(DOBI/) DOBIE K W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     hematologic, or hyperproliferative disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2296 CCTGGGAGGCAGAAAC 2311
                                                                                               BP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BENNETT C F.
COWSERT L M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CCTGGGAGGCAGACAC 16
                                                                                             Cowsert LM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BP; 6 A; 6 C; 7 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQ ID NO 51; 48pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2000US-00702251.
2001WO-US047585.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Cowsert
                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              롤
                                                                                              Dobie
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      novel
                                                                                                                                                                                                                                                                                                                                                                                                                            ₽P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 14.4;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          el antisense compounds targeted
Talin to and inhibit its expres
                                                                                              Ž
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1.1e+03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cardiac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                 disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     a nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
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RESULT 2156
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NO: 4. The oligomeric compound hybridises to nucleobases 53-195 in the 5' UTR of ADP96435 or to nucleobases 1757-1860 in the 3' UTR of ADP96435. The antisense compound is useful for inhibiting the expression of dual specific phosphatase 6 and for treating a disease or condition associated with the expression of dual specific phosphatase 6 (e.g. a hyperproliferative disorder, developmental disorder, neural disorder or a apoptotic disorder. These may also be used as research reagents and diagnostics, to distinguish between functions of various members of a biological pathway, and in the treatment of a disease or disorder, which can be treated by modulating the expression of dual specific phosphatase 6. The DUSTS gene is located on chromosome 12922-23. The present sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          or diluent) and a method of inhibiting the expression of dual specific phosphatase 6 in cells or tissues comprising contacting the cells or tissues with the antisense oligonucleotide. The oligomeric compound inhibits the expression of dual specific phosphatase 6 by at least 60%, and hybridises to nucleobases 369-389, 480-500, 657-677, 713-818, 923-1028, 1196-1216, 12771693, or 1757-1860 in the coding region of SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to an oligomeric compound (an antisense oligonucleotide) 8-50 nucleobases in length comprising a sequence complementary to a nucleic acid molecule encoding dual specific phosphatase 6 (DUST6, phosphorylating Map kinase and extracellular signal related kinase, ERK) appearing as ADP96435. Also included are a composition comprising the oligonucleotide (and a pharmaceutical carrier
                                                                                                                                                                                                                                                                                                                                                                                                         Human; antisense; ss; dual specific phosphatase 6; DUST6; MAP kinase; extracellular signal related kinase; ERK; hyperproliferative disorder developmental disorder; neural disorder; apoptotic disorder;
                                                                                                                                                                                                      modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human DUSP6 antisense oligonucleotide ISIS103235.
                                                  US2004127451-A1
                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     23-SEP-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADP96466;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADP96466 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                       modified_base
                                                                                                                                                                                                                                                                                                   modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              is a DUST6 cDNA target sequence for the antisense oligonucleotides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2695 GACAGATTGAGTTTCT 2710
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GACAGATTGAGCTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20
                                                                                                                                                                                                                                                                                                                                                                                           12q22-23.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BP; 5 A;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                         /*tag= b
/mod_base= OTHER
/note= "Phosphorothioate
-methylcytidines"
                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                       16. .20
                                                                                                                                                      note=
                                                                                                                                                                       /*tag= a
/mod_base= OTHER
                                                                                                        mod base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5 C; 5 G; 5 T; 0 U; 0 Other;
                                                                                                                                                        "2'-methoxyethyl residue"
                                                                                 "2'-methoxyethyl residue"
                                                                                                                      ი
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 14.4;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .1e+03
                                                                                                                                                                                                                                               backbone and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                             all cytidines
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0
                                                                                                                                                                                                                                                                                                                                                                                                                              disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 60%,
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01-JUL-2004.

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AAQ20033
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to an oligomeric compound (an antisense CC oligonuclectide) 8-50 nucleic acid molecule encoding a sequence cc complementary to a nucleic acid molecule encoding dual specific composition comprising the oligonucleotide (and a pharmaceutical carrier cc composition comprising the oligonucleotide (and a pharmaceutical carrier cc phosphatase 6 (DUST6, phospharing as ADP96435. Also included are a cc composition comprising the oligonucleotide (and a pharmaceutical carrier cc phosphatase 6 in cells or tissues comprising contacting the cells or tissues with the antisense oligonucleotide. The oligomeric compound cc inhibits the expression of dual specific phosphatase 6 by at least 60%, cc and hybridises to nucleobases 369-389, 480-500, 657-677, 713-818, 923-cc 1028, 1196-1216, 12771693, or 1757-1860 in the coding region of SEQ ID CC Wrs of ADP96435 or to nucleobases 1757-1860 in the 3' UTR of ADP96435 or to nucleobases 1757-1860 in the 3' UTR of ADP96435. CC Wrs of ADP96435 or to nucleobases 1757-1860 in the 3' UTR of ADP96435. CC The antisense compound is useful for inhibiting the expression of dual specific phosphatase 6 (e.g. a hyperproliferative disorder, developmental disorder, neural disorder or a apoptotic disorder. These may also be used as research reagents and cc diagnostics, to distinguish between functions of various members of a cc biological pathway, and in the treatment of a disease or disorder, which cc an be treated by modulating the expression of dual specific phosphatase cc is an antisense oligonucleotide targeting DUST6.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                modified_base
                                                                                     Synthetic
                                                                                                                  deoxyribonucleic acid; major groove; ethanoamino group; aziridinylcytosine; cross-linking group; tumour necrosis factor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New antisense oligonucleotides specific phosphatase 6, useful associated with the expression
                                                                                                                                                                        Cross-linking oligomer 214 for targetting human TNF
                                                                                                                                                                                                               01-APR-1992
                                                                                                                                                                                                                                                                                  AAQ20033 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      09-FEB-2004; 2004US-00774888
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 15; SEQ ID NO 35; 54pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2004-499137/47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Monia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (MONI/) MONIA B P.
(COWS/) COWSERT L M.
(DOBI/) DOBIE K W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     18-JUL-2002; 2002US-00199221.
                                                                                                                                                                                                                                                                                                                                                                                               2695 GACAGATTGAGTTTCT 2710
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15; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BP; 5 A; 5 C; 5 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                           (first entry)
                                                  Location/Qualifiers
/mod_base= OTHER
                *tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                       0.3%;
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                                                                                                                                                                                                                                                                                  ВÞ
                                                                                                                                                                                                                                                                                                                                                                                                                                         0
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 14.4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     which inhibit the expression of dual
for e.g. treating disease or condition
of dual specific phosphatase.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 20;
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                                                              Query Match
Best Local
                              Matches
                                                             Sequence 21 BP; 4 A; 7 C; 0 G; 10 T; 0 U; 0 Other;
                                                                           The sequence is designed to target the Human tumour necrosis beginning at nucleotide 1137 and to covalently cross-link to N4N4-ethanocytosine group. See also AAQ20031-Q20038
                                                                                                          Example 4; Page 25; 42pp; English.
                                                                                                                                  New sequence-specific non-photo-activated crosslinking agents - bind to
                                                                                                                                                                                                        25-MAY-1990;
14-JAN-1991;
                                                                                                                                                                                                                                                                                                                            modified_base
                                                                                                                                                                                                                                                                                                                                                                                                 modified_base
                                                                                                                                                          WPI; 1992-007480/01
                                                                                                                                                                         Matteucci MD,
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                                      Similarity
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                                                                                                                         e.g. HIV.
                              Conservative
                                                                                                                                                                         Krawczyk S;
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91US-00640654.
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/mod_base=
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/mod_base= OTHER
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/mod_ba
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/mod_ba
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/mod_ba
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Dom
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                              0,
                                      Score 14.4;
Pred. No. 1.
                             Mismatches
                                      1.2e+03;
                                             DB 1; Length 21;
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New sequence-specific non-photo-activated crosslinking agents - bind to the major groove of duplex DNA and are esp. useful for treating latent infections e.g. {\rm HIV}.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cross-linking oligomer 216 for targetting human TNF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01-APR-1992 (first entry)
                                                        Krawczyk S;
                                                                                      90US-00529346.
91US-00640654.
                                                                                                              90US-00529346
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/mod_base=
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/mod_base= (
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/mod_base= m5c
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/mod_base= OTHER
_note= "N-methyl-8-oxo-2'-deoxyadenine"
                                                                                                                                                            note= "N-methyl-8-oxo-2'-deoxyadenine"
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e= "N4N4-ethanocytosine"
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   RESULT 2159
AAQ20034
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Best Local Similarity 93.8%;
Matches 15; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The sequence is designed to target the Human tumour necrosis beginning at nucleotide 1137 and to covalently cross-link to N4N4-ethanocytosine group. See also AAQ20031-Q20038
                                                                                                                                                                                                                                                                                                                                                  deoxyribonucleic acid; major groove; ethanoamino group; aziridinylcytosine; cross-linking group; tumour necrosis factor; ss.
  WO9118997-A
                                       modified_base
                                                            modified_base
                                                                                                           modified_base
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                                                                                                                                                                                                                                                                                                                                    Synthetic
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                                                                                                                                                                                                                                                                                                                                                                                                         AAQ20034;
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                                                                                      modified_base
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/mod_base=
                                             /*tag= j
/mod_base=
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/mod_base=
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/mod_base=
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/mod_base= OTHER
/not== "N-methy1-8-oxo-2'-deoxyadenine"
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/mod_base= OTHER
/note= "N-methyl-8-oxo-2'-deoxyadenine"
                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
                  note= "N4N4-ethanocytosine"
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e= "N4N4-ethanocytosine"
                          _base= OTHER
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 14.4; DB 1; Length Pred. No. 1.2e+03;
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RESULT 2160
AAQ30385
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Best Local S
Matches 15
               modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Tumour necrosis factor; herpes simplex; AIDS; modified; HIV; RSV; HPV, malignancy; hepatitis; inflammation; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Oligomer TNF216 for forming triplex with HUMTNFAA target duplex
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                25-MAR-2003
07-DEC-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAQ30385 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The sequence is designed to target the Human tumour necrosis beginning at nucleotide 1137 and to covalently cross-link to N4N4-ethanocytosine groups. See also AAQ20031-Q20038
                                                                           modified_base
                                                                                                                                                                                                                                                                                                                                      modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAQ30385;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New sequence-specific non-photo-activated crosslinking agents - bind to the major groove of duplex DNA and are esp. useful for treating latent
                                                                                                                                                                  modified_base
                                                                                                                                                                                                                                                    modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 21 BP; 3 A; 8 C; 0 G; 10 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 4; Page 25; 42pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 1992-007480/01.
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14-JAN-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  12-DEC-1991.
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(first en
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Krawczyk S;
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91US-00640654
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/mod_base= OTHER
"OTHER= N6
                                                                                                    /note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Location/Qualifiers
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/note= "OTHER= N6 methyl-8-oxo-2'
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'mod_base= m5c
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e= "OTHER= N4
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Pred. No. 1.
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                                                                                                    methyl-8-oxo-2'
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                                                                                                                                                                                        methyl-8-oxo-2'
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                                                                                                      deoxyadenine'
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RESULT 2161
AAQ30384
ID AAQ3038
XX
AC AAQ3038
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AAQ30384 standard;

DNA;

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AAQ30384;

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                                              Query Match
Best Local S
Matches 15
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17-APR-1991;
17-APR-1991;
27-SEP-1991;
                                                                                                                   The synthetic oligomer is capable of forming a triplex at physiological pH with a purine rich target sequence by coupling into the major groove of the duplex. The specific target sequence of this oligomer is the human tumour necrosis factor beginning at nucleotide 1137 contg. a purine rich sequence concd. on one strand of the duplex. The oligomer, and others like it are useful in diagnosis and therapy of diseases characterised by specific DNA duplex targets, e.g. HPV; HER; HIV, hepatitis B, herpes, malignant tumours and inflammation. The triple helices form under mild conditions thus assays may be carried out without subjecting the test specimen to harsh conditions. See also AAQ25452-25501 and AAQ30226-448. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                               Sequence 21 BP; 4 A; 7 C; 0 G; 10 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                        Claim 12; Page 70; 77pp; English.
                                                                                                                                                                                                                                                                                                            New oligomers contg. modified bases - doublet in a DNA duplex, for treating
                                                                                                                                                                                                                                                                                                                                                 WPI; 1992-217083/26.
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08-APR-1991;
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                                    Pred. No.
O: Mismatches
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                                                           Score 14.4;
Pred. No. 1.
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23-NOV-1990;
18-JAN-1991;
08-APR-1991;
17-APR-1991;
17-APR-1991;
17-APR-1991;
27-SEP-1991;
New oligomers contg. modified bases - which form a triplex with G-C doublet in a DNA duplex, for treating and diagnosing HIV, hepatitis herpes malignancy and inflammation.
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modified_base
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                       WPI; 1992-217083/26.
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07-DEC-1992
                                             (GILE-)
                                             GILEAD SCI
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                                  Krawczyk
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(first entry)
                                                        90US-00617907
91US-00643382
91US-00683420
91US-00686544
91US-00686546
91US-00686547
91US-00766733
                                                                                                     91WO-US008811
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 12; Page 70; 77pp; English
                                                                                                                                                                                                                Sequence 21 BP; 3 A; 8 C; 0 G; 10 T; 0 U; 0 Other;
                                                     280
G
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20
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                                                                                                                                    Score 14.4;
Pred. No. 1
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RESULT 2162 AAQ30382 Key modified_base Tumour necrosis factor; herpes simplex; AIDS; modified; HIV; RSV; HPV; malignancy; hepatitis; inflammation; 88. modified_base modified_base Synthetic Oligomer TNF213 for forming triplex with HUMTNFAA target duplex. 25-MAR-2003 07-DEC-1992 AAQ30382; modified_base modified_base modified_base modified_base modified_base modified_base AAQ30382 standard; DNA; 21 (revised) (first entry) /*tag= c /mod_base= OTHER /note= "OTHER= N6 F /*tag= a /mod_base= /*tag= /mod_ba /note= /mod_base= 15 mod. Location/Qualifiers /*tag= mod_base= mod_base= note= /*tag= b /mod_base= OTHER note= *tag= *tag= *tag= base= base= REPRINTED NOTHER ۳. 5 "OTHER= "OTHER= ω O FOTHER m5c ВP m5c m5c m5c N6 methyl-8-oxo-2' deoxyadenine' methyl-8-oxo-2' methy1-8-oxo-2' deoxyadenine" deoxyadenine"

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RESULT 2163
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18-JAN-1991;
08-APR-1991;
17-APR-1991;
                      Tumour necrosis factor; herpes simplex; AIDS; modified; HIV; RSV; HPV; malignancy; hepatitis; inflammation; ss.
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                                                          Oligomer TNF214 for forming triplex with HUMTNFAA target duplex.
                                                                                     25-MAR-2003
07-DEC-1992
                                                                                                                                                                                                                                                                                                               Sequence 21 BP; 5 A; 6 C; 0 G; 10 T; 0 U; 0 Other;
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91US-00643382.
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The synthetic oligomer is capable of forming a triplex at physiological pH with a purine rich target sequence by coupling into the major groove of the duplex. The specific target sequence of this oligomer is the human tumour necrosis factor beginning at nucleotide 1137 contg. a purine rich sequence concd. on one strand of the duplex. The oligomer, and others like it are useful in diagnosis and therapy of diseases characterised by

human

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17-APR-1991;
17-APR-1991;
27-SEP-1991;
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18-JAN-1991;
08-APR-1991;
17-APR-1991;
                    New oligomers contg. modified bases -doublet in a DNA duplex, for treating herpes malignancy and inflammation.
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                               which form a triplex with G-C and diagnosing HIV, hepatitis,
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Best Local S
Matches 15
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                                                                                                                         Recombinant cells transformed with DNA encoding a SHT5a serotonin receptor express the receptor on their surfaces. They can be used in tests to identify ligands or modulators of the receptor and serotonin agonists and antagonists which may be useful in the treatment of SHT5a associated disorders. Probes for the SHT5a receptor (AAQ56313-18) can be used to detect expression of SHT5a; to detect genetic abnormalities due to incorrect splicing, polymorphisms and point mutations; to diagnose neurological, cardiovascular or psychiatric disorders related to SHT5a and to detect/isolate homologous nucleic acid sequences encoding SHT5a polypeptides. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            specific DNA duplex targets, e.g. HPV; HER; HIV, hepatitis B, herpes, malignant tumours and inflammation. The triple helices form under mild conditions thus assays may be carried out without subjecting the test specimen to harsh conditions. See also AAQ25452-25501 and AAQ30226-448. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                           New rat or human serotoninergic receptor designated - and DNA, anti-semoligonucleotide(s), probes, recombinant cells etc., for diagnosis and treatment of receptor related disorders and for identifying therapeutic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Receptor; serotonin; 5HT5a; ligands; modulators; screening; agonists; antagonists; treatment; disorders; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         25-MAR-2003
12-JUL-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 21 BP; 4 A;
                                                                                                   Sequence
                                                                                                                                                                                                                                                                                    Claim 17; Page 18; 37pp; French.
                                                                                                                                                                                                                                                                                                                agents.
                                                                                                                                                                                                                                                                                                                                                                                       WPI; 1994-035062/04.
                                                                                                                                                                                                                                                                                                                                                                                                                  Amlaiky N,
                                                                                                                                                                                                                                                                                                                                                                                                                                              (INRM ) INSERM INST NAT SANTE & RECH MEDICALE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      29-JUN-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20-JAN-1994.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Probe for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAQ56313;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAQ56313 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local Similarity hes 15; Conserv
                2378
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                280
                                          l Similarity
15; Conserv
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GAGGAGGGAGCAGAAG 2393
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                                          0.3%;
ilarity 93.8%;
Conservative
                                                                                                   B₽;
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(first entry)
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                                                                                                   N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            serotonin receptor coding sequence.
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                                                                                                   10 C; 2
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                                          0;
                                                                                                   G; 7 T; 0 U;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 14.4; DB 1;
Pred. No. 1.2e+03;
                                                        Score 14.4;
Pred. No. 1.
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                                             Mismatches
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                                                         .2e+03;
                                                                       DB 1; Length 21;
                                                                                                   0 Other;
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AAT48851/ ID AAT4 XX AC AAT4 XX

AAT48851 standard;

DNA;

21

В₽

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AAT48851;

RESULT

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                                                                                              RESULT 2165
AAQ72003/c
                                               Best Loc
Matches
                                                                      Query Match
                                                                                                                    AAQ71998-72000 and AAQ72003-9 are probes disclosed for use in the invention. The invention is for an improved method of detecting specific nucleic acids by a flow-through membrane nucleic acid hybridisation assay. This oligonucleotide is a capture probe and the base sequence corresponds to serovar L2 of Chlamydia trachomatis major outer membrane protein (MOMP) nucleotides position 747-766. The probe has a mixture of (AMINO MODIFIER II, Clontech) at the 5'end. Pref. the membrane comprises nylon with streptavidin in a test site. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                 Flow-through membrane nucleic acid comprising nylon with streptavidin including biotin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               assay; major objection label;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Chlamydia trachomatis; L2 serovar; assay; major outer membrane proteir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        25-MAR-2003
07-APR-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAQ72003 standard; DNA; 21
                                                                                              Sequence 21 BP; 3 A; 3 C; 9 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                          Example 2; Page 8; 15pp; English.
                                                                                                                                                                                                                                                                                                                                   WPI; 1994-281212/35.
                                                                                                                                                                                                                                                                                                                                                                                                            26-FEB-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            14-SEP-1994.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Detector probe
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                                                                                                                                                                                                                                                                                                                                                           Jurgensen SR,
                                                                                                                                                                                                                                                                                                                                                                                                                                   10-FEB-1994;
                                                         Local
                       3964 ACCTCCAGCACTCCAA 3979
16
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                                               1 Similarity
15; Conserv
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AGCTCCAGCACTCCAA 1
                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (revised)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               streptavidin;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               based on serovar L2 C. trachomatis MOMP sequence.
                                                                                                                                                                                                                                                                                                                                                             Donahue
                                                                                                                                                                                                                                                                                                                                                                                    DICKINSON
                                                                                                                                                                                                                                                                                                                                                                                                            93US-00026139
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /*tag= a
/note= "LC-Biotin-(2-4)-5'-Thymine (see
                                                         93.8%;
                                                                      0.3%;
                                                                                                                                                                                                                                                                                                                                                             S,
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                                                                                                                                                                                                                                                                                                                                                             Shank
                                                           Pred. No.
                                                                       Score
                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                             8
                                                                      14.4;
                                                                                                                                                                                                                                                                                               hybridisation assay - using a membrane in a test site and a capture probe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          detection method; hybridisation;
n; MOMP; nylon membrane; probe;
                                                           1.2e+03
                                                                       DB 1;
                                                                     Length
                                                Indels
                                                                       21;
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RESULT 2167
AAV00595/c
ID AAV0059
XX
AC AAV0059
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AC AAV0059
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DT 14-JUL-
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PR 03-JUN-
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Best Local S
Matches 15
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used. e.g.
                                                           03-JUN-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Nested PCR primers (AAT48848-51) were designed to obtain a full-length coding sequence for rat brain adenosine kinase (AK). These primers bind to the 5' and 3' untranslated regions of the gene. Rat brain cDNA was initially amplified with outer primers (AAT48848) AAT48850) and then with the inner primers (AAT48849, AAT48851). The PCR fragment was cloned into pGEM-T and inserts from multiple clones were sequenced. A full-length consensus sequence (AAT48843) coding for rat brain AK (AAM08369) was obtd
                                                                                                              11-DEC-1997.
                                                                                                                                                               WO9746100-A1
                                                                                                                                                                                                                Mua ap.
                                                                                                                                                                                                                                                                      Synthetic
                                                                                                                                                                                                                                                                                                                                                                     SC single chain Fv;
                                                                                                                                                                                                                                                                                                                                                                                                                        Anti-human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            14-JUL-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAV00595 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure; Page 53; 75pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 1997-052334/05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       07-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        31-MAY-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO9640937-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Adenosine kinase; agonist; polymerase chain reaction;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  30-MAR-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (ABBO ) ABBOTT LAB.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              19-DEC-1996
                                                                                                                                                                                                                                           omo sapiens
                                                                                                                                                                                                                                                                                                                       primer,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2148 GAAAAGAAACTCAGGC 2163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16 GAAAAGCAACTCAGGC 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      l Similarity
15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MD, Halbert DN,
                                                                                                                                                                                                                                                                                                                                               enzyme complex
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      and human placenta short for assaying for AK (ant) against AK.
                                                                                                                                                                                                                                                                                                                                                                                                                        SC single-chain FV VL region cloning primer VL-Va
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BP; 1 A;
                                                                                                                                                                                                                                                                                                                       88.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first
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     96US-00656906
                                                           97WO-US009858.
                                                                                                                                                                                                                                                                                                                                                                     protamine;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       6 C; 5 G; 9 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                               receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 scenta short and long forms of adenosine kinase for AK (ant)agonists or for prodn. of monoclonates or the production of the second seco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Kerwin JF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             antagonist; monoclonal antibody;
PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            inner reverse primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 14.4; DB 1;
Pred. No. 1.2e+03;
                                                                                                                                                                                                                                                                                                                                          fusion protein; SECR; exogenous gene;
; gene therapy; target binding moiety;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mcnally
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 21;
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CC chain region of the anti-body from mydiams 121 and 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             chain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (UYCA-) UNIV CASE WESTERN RESERVE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        primer is used for the PCR amplification of the variable light
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         region of the antibody from hybridomas 4121 and 4114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ä,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Page 83; 158pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Davis PB,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            bý targeting the
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Best Local S
Matches 15
          2526 GACCGAGTCCTCTGGAAGTC
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0
                                        Similarity
GACTGRGTCATCTSGATGTC 1
                                Conservative
                                        0.3%;
                               2;
                                        Score 14.4;
Pred. No. 1
               2545
                                Mismatches
                                        .2e+03
                                                DB 1;
                                 ω
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                                                Length
                                 Indels
                                                 21;
                                <u>,,</u>
                                 Gaps
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21 BP; 6 A; 5 C; 4 G; 4 T; 0 U; 2 Other;

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ARESULT 2168
AAZ26722/C
ID AAZ2672
XX AAZ2672
XX AAZ2672
XX JONOV-
DT 30-NOV-
DT 30-NOV-
XW Polymor
KW Polymor
KW cell vi
KW allele
KW allele
KW dysplas
KW dysplas
KW dysplas
KW dysplas
KW GYAFT
VX
XX MO98416
XX MO98416
XX 19-MAR-
XX
                                                                                                                                                                  Polymorphism; human; inhibitor; cancer; treatment; cell growth; LOH; cell viability; loss of heterozygosity; precancerous condition; ASI; allele specific inhibitor; somatic cell; diagnosis; prevention; atherosclerotic plaque; premalignant metaplastic lesion; endometriosis; dysplastic lesion; benign tumour; polycystic kidney disease; transplant, graft versus host disease; malignant cell removal; bone marrow; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                          AAZ26722 standard;
                                                                                                                                                                                                                                                                                                     Human polymorphic region 911.
                   19-MAR-1998;
                                                           24-SEP-1998.
                                                                                                                                                                                                                                                                                                                                               30-NOV-1999
                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                             (first entry)
                     98WO-US005419.
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THE STANDARD STANDARD
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AAZ26226/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         used for preventing the development of cancer in a patient having a precancerous condition, by administering to the patient a first allele specific inhibitor (ASI) targeted to an allele of a first essential gene present in cells of the precancerous condition, where the normal somatic cells of the patient are heterozygous for the first gene, the inhibitor is active on at least one but less than all allelic forms of the gene present in a population and targets only one allelic form present in the normal somatic cells, and the first gene. The products and methods can be used in the diagnosis, prevention and treatment of LOH disorders, e.g. cancers, atherosclerotic plaques, premalignant metaplastic or dysplastic lesions, benign tumours, endometriosis, polycystic kidney disease, and graft versus host disease. The method can also be used to remove malignant cells from bone marrow transplants. AAZS5812-Z26625 represent human polymorphic sites described in the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                            atherosclerotic plaque; premalignant metaplastic lesion; endometriosis; dysplastic lesion; benign tumour; polycystic kidney disease; transplant; graft versus host disease; malignant cell removal; bone marrow; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Identifying target genes for allele-specific drugs - used for diagnosis, prevention and treatment of, e.g. cancers, atherosclerotic plaque, dysplastic lesions, endometriosis or graft versus host disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Polymorphism; human; inhibitor; cancer; treatment; cell growth; cell viability; loss of heterozygosity; precancerous condition; allele specific inhibitor; somatic cell; diagnosis; prevention;
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                                                                                                                                                                                                                                                                            WO9841648-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human polymorphic region 415.
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                                                                                      20-MAR-1997;
                                                                                                                                                                                                               24-SEP-1998
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                                                                                                                                                   19-MAR-1998;
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                            (VARI-) VARIAGENICS INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3720
                                                                                                                                                                                                                                                                                                                                   sapiens
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15; Conserv
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Pred. No. 1.2e+03;
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ASI;
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RESULT 2170
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This invention describes a novel method for identifying an inhibitor CC potentially useful for treatment of cancer, where the inhibitor is active on a gene vital for cell growth or viability, and where the gene is CC subject to loss of heterozygosity (LOH) in a cancer. The inhibitor is CC used for preventing the development of cancer in a patient a first allele CC precancerous condition, by administering to the patient a first allele CC specific inhibitor (ASI) targeted to an allele of a first essential gene CC present in cells of the precancerous condition, where the normal somatic cc cells of the patient are heterozygous for the first gene, the inhibitor CC is active on at least one but less than all allelic forms of the gene CC present in a population and targets only one allelic form present in the normal somatic cells, and the first gene. The products and methods can be cused in the diagnosis, prevention and treatment of LOH disorders, e.g. CC cancers, atherosclerotic plaques, premalignant metaplastic or dysplastic lesions, benign tumours, endometriosis, polycystic kidney disease, and CC graft versus host disease. The method can also be used to remove malignant cells from bone marrow transplants. AAZ25812-Z26825 represent with the content of LOH disorders of the content cells from bone marrow transplants.
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                                                                                                                                                                                                                                                                                          Synthetic.
Rattus sp.
                                                                                                                                                                                                                                                                                                                                            Adenosine kinase; cytotoxic nucleoside resistance; anticancer; antiviral; liver tumour; gout; acquired immune deficiency syndrome; tissue injury; adenosine concentration; cytoprotection; rat; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Identifying target genes for allele-specific drugs - used for diagnosis, prevention and treatment of, e.g. cancers, atherosclerotic plaque, dysplastic lesions, endometriosis or graft versus host disease.
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                                                WPI; 1999-130392/11.
                                                                                                                                                    07-JUN-1995;
                                                                                                                                                                                                                         19-JAN-1999
                                                                                                                                                                                                                                                                                                                                                                                                                   PCR primer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAX01111 standard; DNA; 21 BP
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                                                                                                                     (ABBO ) ABBOTT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                   Kerwin
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                                                                                                                                                    95US-00479614.
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Pred. No. 1.2e+03
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                                                                                   Cowart
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                                                                                                                                                                                                                                                                                                                                                                                                                   sequence.
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New nucleic acid encoding adenosine kinases - expression vectors and transformed cells,

and related oligo-nucleotides used to modulate adenosine

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Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This sequence is a PCR primer for DNA encoding the rat brain adenosine kinase (AK) of the invention. Cells transformed with the DNA are used t produce recombinant AK. The AK is used: (i) to screen for specific agonists and antagonists; (ii) to raise antibodies; and (iii) therapeutically (reduced levels of AK are associated with resistance to nucleoside analogues with cytotoxic, anticancer and antiviral propertie with liver tumours, gout and acquired immune deficiency syndrome). Fragments of the DNA sequence are used as primers and probes to screen DNA libraries and for identifying AK-encoding nucleic acid, also as antisense therapeutics (particularly to increase local adenosine concentrations at the site of tissue injury, increasing the level of
             B. thuringiensis crystal proteins can be used in compositions as an insecticide. The polynucleotides encoding the crystal proteins are used to detect a nucleic acid encoding a delta-endocoxin polypeptide and to transform plants such as corn, wheat, oat, rice, barley, turf grass,
                                                                       The present invention describes Bacillus thuringiensis crystal proteins, which have insecticide activity and are mid-gut cell wall disruptors. The
                                                                                                                                                        New Bacillus thuringiensis polypeptide for use as an insecticide in protecting plants, such as, corn, wheat, oat, tobacco, or potato plants and in controlling insect populations, such as, Colorado potato beetle
                                                                                                                                                                                                                                                                                                                                                                                                       WO200066742-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                 Bacillus thuringiensis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bacillus thuringiensis; coleopteran; toxic; insect resistant plant; delta-endotoxin; transgenic plant; insecticide; crystal protein; pr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Bacillus thuringiensis CryET75 oligonucleotide primer SEQ ID
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                                                                                                                                                                                                                                                             Rupar MJ,
                                                                                                                                                                                                                                                                                       (MONS ) MONSANTO CO.
                                                                                                                                                                                                                                                                                                                    04-MAY-1999;
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                                                                                                                                              southern
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                                                                                                                                                                                                                                                           Donovan WP,
                                                                                                                Page 116; 198pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                              rootworm.
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  soybean,
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Pred. No. 1.2e+03;
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RESULT 2172
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XX AAC6336
XX O6-FBB-
XX Primer,
XX Primer,
XX Primer,
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Best Local S
Matches 15
                                                                                    The present invention relates to a method for detecting polymorphisms in a nucleic acid sequence. The method comprises amplifying nucleic acid sequences with a first primer homologous to a miniature inverted-repeat transposable element (MITE) in combination with another primer (non)homologous to MITE, separating the amplified nucleic acid fragments, and analysing the fragments obtained in relation to reference fragments obtained from the amplification of the nucleic acid with the primer homologous to MITE. The present sequence is a primer used in the method
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                                                                                                                                                                                                                                                                                                                                                                                                                Detecting polymorphisms of nucleic acid, useful for e.g. tracing progeny, by amplifying the nucleic acid with a homologous and a nonhomologous primer to a miniature inverted-repeat transposable element.
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(DNAL-) DNA LANDMARKS INC
(LAND/) LANDRY B.
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(DNAL-) DNA LANDM
(LAND/) LANDRY B.
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DNA LANDMARKS
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                                                                                                                                                 paternity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      G; 7 T; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 14.4;
Pred. No. 1
                                                                                                                                                 test;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
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                                                                                                                                                 ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      U; 2 Other;
                 nucleotide polymorphism"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       88
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RESULT 2176
AAH62680
ID AAH6268
XX AAH6268
XX O9-SEP-
DT 12-SEP-
XX Single
KW Single
KW heart (
XX Unident
XX
FH Key
FT variati
FT
FT Variati
FT
XX
PD 31-MAY-
XX
PD 31-MAY-
                                                                                                                                                                                                                                                                                                                                                                                                                 맑
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Best Local S
Matches 15
                                                                                                                                                                                                                                                                09-SEP-2004
12-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention provides a method of diagnosing a vascular disease in an individual, involving determining the sequence at various polymorphic sites within the human thrombospondin 1 and thrombospondin 4 genes. The sequences at a number of polymorphic sites are also provided in the specification. In particular, the method can be used in the diagnosis of atherosclerosis, myocardial infarction, coronary heart disease, stroke, peripheral vascular diseases, venous thrombosmbolism and pulmonary embolism. Single nucleotide polymorphisms (SNPs) are also useful in forensics, paternity testing, genetic analysis and phenotype
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Nucleic acids comprising single nucleotide polymorphisms, useful applications such as forensics, paternity testing, medicine, gene analysis and phenotype correlations to diseases such as diabetes
                31-MAY-2001
                                                                                                                                               Homo sapiens
Unidentified
                                                                                                                                                                                       Single nucleotide polymorphism; SNP; human; cancer; heart disease; paternity testing; forensic science;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            useful in forensics, paternity testing, genetic analysis and phenotype correlations to diseases. The present sequence is an example of one of the human gene SNPS shown in the specification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10-SEP-1999; 99US-0153357P.
26-JUL-2000; 2000US-0220947P.
16-AUG-2000; 2000US-0225724P.
                                            WO200138576-A2
                                                                                                      variation
                                                                                                                                                                                                                                 Collagen type 1 alpha 2 polymorphism containing DNA fragment #581.
                                                                                                                                                                                                                                                                                                                                         AAH62680 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example; Page 210; 242pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2001-226749/23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          07-SEP-2000; 2000WO-US024503
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (WHED)
                                                                                                                                                                                                                                                                                                                                                                                                                                   4079 AAGCCCTCAGTGAGCT 4094
                                                                                                                                                                                                                                                                                                                                                                                                               ٠ 4،
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        l Similarity
15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MILLENNIUM PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WHITEHEAD INST BIOMEDICAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21
                                                                                                                                                                                                                                                                                                                                                                                                               AAGCCCTCAGTGAGAT 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BP; 6 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gargill M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                (first entry)
                                                                                                                                                                                                                                                                               (revised)
                                                                                                      Location/Qualifiers
                                                                      /standard_name= "single nucleotide polymorphism'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5 C; 6 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ireland JS,
                                                                                                                                                                                                                                                                                                                                           쁑
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 14.4; DB 1;
Pred. No. 1.2e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RES
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 1;
                                                                                                                                                                                                      cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Daley GQ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                          inflammation; ds.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 genetic
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RESULT 2177
AAI99962
ID AAI9996
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Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           the SNP containing sequences. The nucleotide sequences can be used in the diagnosis or monitoring of diseases, such as cancer, inflammation, heart diseases of the cardiovascular system, and infection by microorganisms. The oligonucleotides are also useful in the manufacture of a medicament for the treatment or prophylaxis of the diseases, and as a pharmaceutical. SNP containing oligonucleotides are useful in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  determining the base occupying any one of the polymorphic sites given in the SNP containing sequences. The nucleotide sequences can be used in the diagnosis or monitoring of diseases, such as cancer, inflammation, heart
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New nucleic acid segments of the human genome, particularly from genes including polymorphic sites, for phenotype correlation, forensics, paternity testing, medicine and genetic analysis.
                                                                                                                                                                                                                                                                                                           EVA membrane
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 21 BP; 1 A; 9 C; 7 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    applications such as phenotype correlation, medicine and genetic analysis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          contain single nucleotide polymorphisms (SNPs). A method is included the invention for analysing a nucleic acid sample, which consists of
                                                                                                                                                                                                           WO200168683-A2
                                                                                                                                                                                                                                     Equine arteritis virus
                                                                                                                                                                                                                                                                 equine
                                                                                                                                                                                                                                                                              Equine
                                                                                                                                                                                                                                                                                                                                     01-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                 AAI99962;
                                                                                                                                                                                                                                                                                                                                                                                           AAI99962 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Revised
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DNA sequences AAH62100 - AAH62688 represent segments of human contain single nucleotide polymorphisms (SNPs). A method is in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 1; Page 76; 80pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cargill M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    17-NOV-2000; 2000WO-US031639
                                                                                                                                                  16-MAR-2001; 2001WO-CA000349
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (WHED ) WHITEHEAD INST BIOMEDICAL RES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2550 CCCCTGGTGCACGTGG 2565
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       15;
                                                                                                                                                                                                                                                                 arteritis virus; viral arteritis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6 CCCCTGGTGCACCTGG 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        record issued on 09-SEP-2004 : Correction to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ireland JS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                         PCR primer
                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         99US-0167334P
                                                                                                                                                                                                                                                                                                                                                                                           DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   93.8%;
                                                                                                                                                                                                                                                                 EAV; EAVmembrane; EAVM; Bucyrus strain; horse; PCR primer; ss.
                                                                                                                                                                                                                                                                                                           15.
                                                                                                                                                                                                                                                                                                                                                                                             21
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                                                                                                                                                                                                                                                                                                                                                                                             ВP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 14.4
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             14.4,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   .2e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               forensics, paternity testing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A method is included in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length
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New antigenic peptide fragment of equine arteritis virus membrane protein, useful in detection of antibodies to equine arteritis vi

virus,

WPI; 2001-590039/66.

17-MAR-2000; 2000CA-02301207.

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RESULT 2178
AAH4914
XX AAH4914
XX AAH4914
XX Human P
XX Neonate
KW Phenylk
KW medium-
KW familia
KW cystic
KW androge
XX Homo sa
XX Homo sa
XX COULL/)
PD 26-JUL-
XX CULL/)
PA (CULL/)
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to an antigenic peptide fragment having at least 90% identity to a 162 amino acid sequence (AAM52131) given in the specification for equine arteritis virus (EAV) (Bucyrus strain) membrane protein (M). The antigenic peptide fragments (or peptide conjugates) are useful to diagnose infection of horses with EAV, the causative agent of equine viral arteritis, without reliance on clinical signs which may be variable and are undetectable in animals with subclinical infection. They can be used to detect antibodies to EAV, by incubating a sample with the fragment/conjugate as a specific binding agent (e.g. an immobilized binding agent or labeled secondary binding agent) and identifying any EAV antibodies present e.g. by enzyme-linked immunosorbent assay (ELISA). The proteins
  This invention describes a novel nucleotide support (A; gene chip) carries a selection of oligonucleotides (I) that are identical, or complementary, to segments of reference sequences relevant to at 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            phenylketonuria; maple syrup disease; galactosemia; homocysteinuria; medium-chain acyl-CoA-dehydrogenase deficiency; biotinidase deficiency; familial hypercholesterolemia; familial defective apolipoprotein-B;
                                                                                                                                                       DNA chip, useful for neonatal or prenatal screening for many genetic diseases simultaneously, carries oligonucleotides complementary to phenotypically relevant reference sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                           21-JAN-2000; 2000DE-01002446
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        09-JAN-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             26-JUL-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  androgenital syndrome; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cystic fibrosis; Marfan syndrome; Smith-Lemil-Opitz
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Neonate screening; prenatal screening;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human PAH gene associated primer #63.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12-NOV-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAH49142;
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                                                                                                          Claim 4;
                                                                                                                                                                                                                                                              WPI; 2001-457616/49.
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                                                                                                                                                                                                                                                                                                                                                                                        CULLEN P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CAAGACGATCACGTCC 21
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                                                                                                                                                                                                                                                                                                           Seedorf U;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2001WO-EP000139
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                                                                                                       92; 101pp;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 얁
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         equine viral arteritis, to diagnose infection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               35pp;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21
                                                                                                       German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0
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Pred. No. 1.2e+03;
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                                                                                                                                                                                                                                      DNA chip, useful for neonatal or prenatal screening diseases simultaneously, carries oligonucleotides cophenotypically relevant reference sequences.
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                                                                                                                                                                                                                                                                                                                                                                            Cullen
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Pred. No. 1.2e
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complementary, to segments of reference sequences relevant to at least two genetically determined phenotypes. (A) are used for simultaneous diagnosis of at least two of the following diseases: phenylketonuria (maple syrup diseases), galactosemia, homocysteinuria, biotinidase deficiency, medium-chain acyl-CoA-dehydrogenase deficiency, familial hypercholesterolemia, familial defective apolipoprotein-B, cystic

invention describes a novel nucleotide support (A; gene chip) which es a selection of oligonucleotides (I) that are identical, or

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RESULT 2180
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(A) require a relatively small number of separate hybridization regions (about 500 for testing for 21 specified disorders), so can be used for simultaneous testing for many diseases. Testing is quick, inexpensive, reliable and more sensitive than current physiological methods. AAH488668-AAH489166 represent oligonucleotides used to illustrate the method of the
The present invention relates to human oligonucleotides comprising a single nucleotide polymorphic site (SNP; AAH89797-AAH89219). The present sequence is one such oligonucleotide. The oligonucleotides can be used if forensics, paternity testing, correlation of polymorphisms with phenotypic traits, genetic mapping of phenotypic traits and marker assisted breeding of animals and crop plants
                                                                                                                                  Claim
                                                                                                                                                                  New polymorphic sites derived from the human genome are useful to determine sites correlating with phenotypic traits, particularly and also in forensics and paternity testing.
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(AFFY-)
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27-FEB-2002
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AFFYMETRIX :
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cing; phenotypic trait;
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27-FEB-2002
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                                                                                                                                                               BP; 3 A; 4 C; 9 G; 5 T; 0 U; 0 Other;
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(first en
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
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/standard_name= "single nucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     eotide polymorphic; SNP; for phenotypic trait; genetic
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                                                                                                                                                                                                                                                                                                                                                                                                   English.
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                                                                                                                                                                                                           09-SEP-2004 : Correction
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                                                                                Mismatches
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mapping; animal
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The invention relates to an isolated nucleic acid from a human gene concoding aminopeptidase P (XPNEPZ), bradykinin receptor B1 (BDKRB1), CC tachykinin receptor B1 (TACR1), C1 esterase inhibitor (C1NH), kallikrein CC 1 (KLKI), bradykinin receptor B2 (BDKRB2), angiotensin converting enzyme CC (ACE2) or protease inhibitor 4 (PI4), comprising at least one CC polymorphic position. Also included are (1) a probe that hybridises to a CC polymorphic position as provided in the detailed summary of single CC nucleotide polymorphisms comprising additional 5 and 3 flanking genomic Sequence; (2) analysing (M1) at least one nucleic acid sample comprising constaining the sample from one or more individuals and determining the CC nucleic acid sequence at one or more polymorphic positions in a gene CC encoding a protein selected from the group above; (3) constructing (M2) the polymorphic of an ACE inhibitor and/or vasopeptidase inhibitor CC using the polymorphic data; (5) a library of nucleic acids, each of which CC comprises one or more polymorphic positions within a gene encoding a conditional selected from the group above; and (6) genotyping (M4) an individual at nucleic acids, each of which CC comprises one or more polymorphic positions within a gene encoding a conditional selected from the group above; and (6) genotyping (M4) an individual at nucleic acids sample, determining the conditional comprising obtaining a nucleic acid sample, determining the nucleotide present in at least one polymorphic position, and comparing at
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ABS60165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Aminopeptidase P; XPNEP2; bradykinin receptor B1; ds; BDKRB1; tachykinin receptor B1; TACR1; C1 esterase inhibitor; C1NH; kallikreir KIKLI; bradyklinin receptor B2; BDKRB2; gene therapy; angiotensin converting enzyme 2; ACE2; protease inhibitor 4; P14; polymorphism; haemangioma; tumour; sarcoma; Crohn's disease; trachoma; cardiovascular disease; angina pectoris; hypertension; heart failure; myocardial infarction; ventricular hypertrophy; vascular disease; aneurysm; embolism; thrombosis; coronary artery disease; angioedaema; arteriosclerosis; atherosclerosis; hypersensitivity; sepsis; autonimune disease; inflammatory arthritis; cancer; wound; viral infection; bacterial infection; fungal infection; COPD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New isolated nucleic acid with at least one polymorphic position, us for detecting, diagnosing and treating disorders such as angioedema, cancer, viral, bacterial or fungal infection, cardiovascular and
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23-JAN-2001; 2001US-0263678P.
02-MAR-2001; 2001US-0273037P.
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Swanson BN,
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HUI L.
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JR,
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RESULT 2183
ABS60164
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XX ABS6016
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XX O5-NOV-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   arteriosclerosis; atherosclerosis; hypersensitivity; sepsis; autoimmune disease; inflammatory arthritis; cancer; wound; viral infection; bacterial infection; fungal infection; COPD
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                                                                                                                                                                                                                                                                                                                                            04-DEC-2000; 2000US-0251015P.
23-JAN-2001; 2001US-0263678P.
02-MAR-2001; 2001US-0273037P.
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                                                                                                                              Tsuchihashi
Swanson BN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        08-AUG-2002.
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TSUCHIHASHI Z.
HUI L.
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Powell
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New isolated nucleic acid with at least one polymorphic position, useful

WPI; 2002-619265/66

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RESULT 2184
ABS60167
ID ABS6016
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XX
DE HUMAN 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CC encoding aminopeptidase P (XPNREP2), bradykinin receptor B1 (BRCR1), Cl (ACLX1), bradykinin receptor B2 (BRCRE2), angiotensin converting enzyme CC (ACE2) or protease inhibitor 4 (PI4), comprising at least one polymorphic position. Also included are (1) a probe that hybridises to a CC polymorphic position. Also included in the detailed summary of single composition as provided in the detailed summary of single polymorphic positions as provided in the detailed summary of single compositions comprising additional 5 and 3 flanking genomic CC sequence; (2) analysing (M1) at least one nucleic acid sample comprising comprising additional 5 and 3 flanking genomic CC sequence; (2) analysing (M1) at least one nucleic acid sample comprising comprising comprising the genes comprising prouping and determining the cencoding a protein selected from the group above; (3) constructing (M2) CC haplotypes using the genes comprising grouping at least two nucleic acids comprising the polymorphic data; (5) a library of mucleic acids, each of which CC using the polymorphic data; (5) a library of mucleic acids, each of which CC units of the polymorphic positions within a gene encoding a comprising obtaining a nucleic acid sample, determining the composition within a gene encoding and compositions are useful for detecting, diagnosing, treating, and compositions within a gene encoding at least one polymorphic positions within a gene encoding the conditions provides and cardiovascular diseases like anglia pectoris, and compositions within a gene encoding the conditions are useful for detecting, diagnosing, treating, at CC hypertension, heart failure, myocardial infarction, ventricular hypertension, heart failure, myocardial infarction, ventricular hypertension, heart failure, myocardial infarction, ventricular chypertension, and cardiovascular diseases like anglia pectoris, and compositions are useful for chromosome identification. Antibodies and biological samples are lase useful for chromosome identification. Antibodies and biologica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      밁
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local
                        Aminopeptidase P; XPNEP2; bradykinin receptor B1; ds; BDKRB1; tachykinin receptor B1; TACR1; C1 esterase inhibitor; C1NH; kallikrei. KLK1; bradykinin receptor B2; BDKRB2; gene therapy; angiotensin converting enzyme 2; ACE2; protease inhibitor 4; P14; polymorphism; haemangioma; tumour; sarcoma, Crohn's disease; trachoma cardiovascular disease; angina pectoris; hypertension; heart failure; myocardial infarction; ventricular hypertroph; vascular disease; angioedaema; embolism; thrombosis; coronary artery disease; angioedaema;
                                                                                                                                                                                                                                                                                                                                         Human polymorphism associated DNA sequence #61.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                               05-NOV-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABS60167 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; Page 708;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cancer,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               invention relates to an isolated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    detecting, diagnosing and treating disorders such as angioedema, ser, viral, bacterial or fungal infection, cardiovascular and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3164 CAGCCACGACCCCATG 3179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    15;
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une diseases.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BP; 6 A;
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                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8 C; 4 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              977pp; English
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Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pred.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1.2e+03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
sepsis;
                                                                                                                                                                                                                     BDKRB1;
C1NH; kallikrein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (BDKRB1)
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                                                                                                                                     trachoma;
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                                                                                                                                                                                                                                       1;
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CC (RKIKI), bradykinin receptor B2 (BDKRB2), anglotensin converting enzyme CC (ACE2) or protease inhibitor 4 (PI4), comprising at least one CC (ACE2) or protease inhibitor 4 (PI4), comprising at least one CC (ACE2) or position as provided in the detailed summary of single CC polymorphic position as provided in the detailed summary of single CC mucleotide polymorphisms comprising additional 5 and 3 flanking genomic CC sequence; (2) analysing (M1) at least one nucleic acid sample comprising cobtaining the sample from one or more individuals and determining the nucleic acid sequence at one or more polymorphic positions in a gene encoding a protein selected from the group above; (3) constructing (M2) constructing (M2) encoding a protein selected from the group above; (3) constructing (M2) comprises one or more polymorphic positions and determining the polymorphic data; (5) a library of nucleic acids encoding the polymorphic data; (5) a library of nucleic acids encoding a protein selected from the group above; (3) constructing (M2) comprises one or more polymorphic positions within a gene encoding at individual comprising obtaining a nucleic acid sample, determining the nucleic acid sample, determining the comprises one position with a known data set. The genes, (M1, M2, M3 and M4) and compositions are useful for detecting, diagnosing, treating, correventing various disorders such as angioedaema and diseases which compertures and cancer, myocardial infarction, ventricular compertures, vascular diseases, aneutysm, embolism, thrombosis, coronary constructive pulmonary disease, aneutysm, embolism, thrombosis, coronary constructive pulmonary disease (COPD) and enterocolitis (many other construction of the specification. Antibodies are also useful for chromosome identification. Antibodies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          autoimmune disease; inflammatory arthritis; cancer; wound; viral infection; bacterial infection; fungal infection; COPD; Chronic obstructive pulmonary disease; enterocolitis.
                                       polynucleotides are also useful for chromosome identification. Antibodies against the proteins may be utilised for immunophenotyping of cell lines and biological samples. The present sequence is included in the sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention relates to an isolated nucleic acid from a human encoding aminopeptidase P (XPNEP2), bradykinin receptor B1 (BD)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure; Page 709; 977pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New isolated nucleic acid with at least one polymorphic position, us for detecting, diagnosing and treating disorders such as angioedema, cancer, viral, bacterial or fungal infection, cardiovascular and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Tsuchihashi Z, Hui
Swanson BN, Powell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        04-DEC-2000; 2000US-0251015P
23-JAN-2001; 2001US-0263678P
02-MAR-2001; 2001US-0273037P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO200261131-A2
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TSUCHIHASHI Z.
HUI L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         minopeptidase P (XPNEP2), bradykinin receptor B1 (BI receptor B1 (TACR1), C1 esterase inhibitor (C1NH),
    18
    referred
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present sequence is
to anywhere else in
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                                                                                                                                   Antibodies
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Query Match Best Local Similarity

0.3%; 8 C; 4

Score Pred.

14.4; No. 1.

Length

Sequence

21

B₽;

6 A;

G; 3 T; 0 U; 0 Other;

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cc encoding aminopeptidase P (XNESP2), bradykinin receptor B1 (BDKRB1), c1 esterase inhibitor (C1NH), kallikrein (C2 (1KLK1), bradykinin receptor B2 (BDKRB2), angiotensin converting enzyme (C3 (ACE2) or protease inhibitor 4 (PI4), comprising at least one (C4 (P14)), c2 (P14), comprising at least one (P14), c3 (P14), c4 (P14), c5 (P14), c6 (P14), c6 (P14), c7 (P14)
                                                  RESULT 2185
ABS60166
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Aminopeptidase P; XPNEP2; bradykinin receptor B1; d8; BDKRB1; tachykinin receptor B1; TACR1; C1 Estevanse inhibitor; C1NH; kalli: tachykinin receptor B2; BDKRB2; gene therapy; angiotensin converting enzyme 2; ACB2; protease inhibitor 4; PI4; polymorphism; haemangioma; tumour; sarcoma; Crohn's disease; tracipal polymorphism; tracipal polymorphis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New isolated nucleic acid with at least one polymorphic position, us for detecting, diagnosing and treating disorders such as angioedema, cancer, viral, bacterial or fungal infection, cardiovascular and autoimmune diseases.
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23-JAN-2001; 2001US-0263678P.
02-MAR-2001; 2001US-0273037P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure; Page 708; 977pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Tsuchihashi
Swanson BN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (BRIM )
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Chronic obstructive pulmonary disease; enterocolitis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human polymorphism associated DNA sequence #60.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      05-NOV-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3164 CAGCCACGACCCCATG 3179
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TSUCHIHASHI Z.
HUI L.
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Powell
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ma-Edmonds M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1;
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cc comprises one or more polymorphic positions within a gene encoding a comprises one or more polymorphic positions within a gene encoding a chuman protein selected from the group above; and (6) genotyping (M4) and comprising obtaining a nucleic acid sample, determining the nucleic tide present in at least one polymorphic position, and comparing at least one position with a known data set. The genes, (M1, M2, M3 and M4) and compositions are useful for detecting, diagnosing, treating, and compositions are useful for detecting, diagnosing, treating, compositions are useful for detecting, diagnosing, treating, and compositions are useful for detecting, diagnosing, treating, compositions are useful for detecting, diagnosing, treating, may preventing various disorders such as angioedaema and diseases which compositions and cardiovascular diseases like angina pectoris, composition, heart failure, myocardial infarction, ventricular composition, heart failure, myocardial infarction, ventricular composition, vascular diseases, aneurysm, embolism, thrombosis, coronary archary disease, arteriosclerosis and/or atherosclerosis, and carcinoscular diseases, inflammatory composition, cancer, wounds, viral, bacterial or fungal infection, Chronic cobstructive pulmonary diseases (COPD) and enterocolitis (many other coliseases and disorders are listed in the specification). The coliseases and disorders are listed in the specification. Antibodies and biological samples. The present sequence is included in the sequence colisting but is not referred to anywhere else in the specification
                                                                   Sequence 21
                                                                   BP; 6
                                                                   A; 8 C; 4 G; 3 T; 0 U;
                                                                       0 Other;
      DB 1;
Length 21;
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Matches
                                         Query Match
Best Local 9
               3164 CAGCCACGACCCCATG 3179
σ
                                         Similarity
CAGCCACGACCTCATG
                                  Conservative
                                        0.3%;
21
                                 0,
                                           Score 14.4;
Pred. No. 1
                                          Pred.
                                  Mismatches
                                          No.
                                          .2e+03;
                                 0
                                  Gaps
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RESULT 2186
                                                                                                                                                                                             Tumour; inflammatory disorder; immunosuppressive cytokine gene; soluble cytokine receptor gene; cardiant; vasotropic; cytostati vascular diseases; viral myocarditis; gene therapy; IFN-gamma;
                                                                                                                                                                          Synthetic.
                                                                                                                                                                                                                          IFN-gamma
                                                                                                                                                           WO200266069-A1
                                                                                                                                                                                       interferon-gamma; PCR; primer; ss.
                                                                                                                                                                                                                                          12-DEC-2002
                                                                                                                                                                                                                                                                       ABQ81608 standard; DNA; 21
                                                                                                                                                                                                                           related
                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                           primer sequence #2
                                                                                                                                                                                                                                                                       ВP
                                                                                                                                                                                                      cytostatic;
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29-AUG-2002

Matsumori A,

Miyazaki

Ģ

Nakano

20-FEB-2001; 2001JP-00043569 20-FEB-2002; 2002WO-JP001445

(KANS-) KANSAI TECHNOLOGY LICENSING

ORG G S

Drug compositions containing expression vector for an immunosuppressive cytokine gene or soluble cytokine receptor gene for treatment of tumors and inflammatory disorders.

The invention relates to drug and inflammatory disorders in

cytokine gene or

compositions for the treatment of tumours the form of an expression vector for an ne or soluble cytokine receptor gene. The

Page 8; 44pp; Japanese.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      KW Cytochrome P450 A1; CYP4501A1; UGT2B4; MDR1;
KW Cytochrome P450 A2; CYP4501A2; Cytochrome P450 02E; CYP45002E1; LTF;
KW Cytochrome P450 A2; CYP4501A2; Cytochrome P450 02E; CYP45002E1; LTF;
KW adrenergic receptor beta1; AbBR1; aryl hydrocarbon; ARR; MRP3; NR112;
KW aryl hydrocarbon receptor nuclear translocator; ARRT; cathepsin S; CTSS;
KW cyclooxgenase 2; COX2; diazepam binding inhibitor; DBI; haematological;
KW cyclooxgenase 2; COX2; diazepam binding inhibitor; DBI; haematological;
KW cyclooxgenase 2; COX2; diazepam binding inhibitor; DBI; haematological;
KW cyclooxgenase 2; EPHX2; 5-lipoxygenase activating protein; FLAP;
KW glutathione-S-transferase 12; GST12; histamine-N-methyl transferase; NNMT;
KW HMMT; kallikrein 2; KLK2; nicotinamide-M-methyl transferase; NNMT;
KW HMMT; kallikrein 2; KLK2; nicotinamide-M-methyl transferase; NNMT;
KW UDP-glucuronosyl transferase 2; NOO2; sulfotransferase thermolabile; STM;
W UDP-glucuronosyl transferase; UDP-glucuronosyl transferase 2B7;
W UDP-glucuronosyl transferase; UGT2B15; urokinase receptor; UPA;
W UDP-glucuronosyl transferase; UGT2B15; urokinase receptor;
W unltidrug resistance associated protein 3; cancer; prostate;
W acetylcholine muscarinic receptor; CHMR1; CHMR3; CHMR3; CHMR4; CHMR5;
W acetylcholine muscarinic receptor; CHMR1; CHMR3; CHMR3; CHMR4; CHMR5;
W acetylcholine muscarinic receptor; UDMA1; CHMR3; CHMR3; CHMR4; CHMR5;
W acetylcholine muscarinic receptor; uplaninological; SNP;
W central nervous system; pulmonary; immunological; SNP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity
Matches 15; Conserv
This invention relates to the sequence of an isolated nucleic acid molecule comprising at least one base variation from that of a known human cytochrome P450 A1 (CYP4501A1), cytochrome P450 A2 (CYP4501A2), cytochrome P450 02E1 (CYP45002E1), adrenergic receptor betal (ADBR1), aryl hydrocarbon receptor nuclear translocator
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             activity of compositions of the invention may be described as, cardiant, vasotropic and cytostatic. They may be used for treatment of tumours and inflammatory disorders, especially of vascular diseases such as viral myocarditis, and may be useful in gene therapy. The current sequence represents an IFN-gamma (interferon-gamma) related primer sequence #1
                                                                                                                                                                                                                                                                                                                                                       Guida M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human multidrug resistance associated protein 3 polymorphic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 21
                                                                                                                                                                                            disorder-related traits.
                                                                                                                                                                                                        Isolated nucleic acid molecules having polymorphisms in known human genese.g. cytochrome p450 and cathepsin S useful as genetic linkage markers for locating, identifying and characterizing the genes responsible for
                                                                                                                                                                                                                                                                                                                                                                                                                                               28-NOV-2000; 2000US-00724389
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             28-NOV-2001; 2001WO-US044838
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO200257410-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABS98384 standard; DNA; 21 BP
                                                                                                                                                                                                                                                                                                                                                                                                    (DNAS-) DNA SCI LAB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1532 CAAGAAAATCCTGCAG 1547
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     sapiens.
                                                                                                                                                                                                                                                                                                            2002-698522/75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CATGAAAATCCTGCAG
                                                                                                                                                                                                                                                                                                                                                          Hall
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BP; 3 A; 4 C; 6
                                                                                                                                          Page 152; 714pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 14.4; DB 1;
Pred. No. 1.2e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ۲,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       tumours and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              #6
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CC protein (FLAP), Subtathione-Stransferase 12 (SST12), histamine-N-methyl CC transferase (NNMT), NADPH quinone oxidoreductase 2 NQO2), CC transferase (NNMT), NADPH quinone oxidoreductase 2 NQO2), CC sulfotransferase thermolabile (STM), UDP-glucuronosyl transferase 284 (UGT284), UDP-glucuronosyl transferase 287 (UGT287), UDP
                                          Query Match
Best Local
                                                                                                                                Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (ARNT), cathepsin S (CTSS), cyclooxgenase 2 (COX2), diazepam binding hidroxylase 2 (EPHX2), 5-lipoxygenase activating
                                                                                                                                BP; S A; 11 C; 2 G; 3 T; 0 U; 0 Other;
                                       0.3%;
                                                                      Score 14.4; DB 1; Length 21;
4; LL
1.2e+03;
1;
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S 4554 CCCAAACCCACCAGTT 4569 σ 21

Matches

Similarity

Conservative

0,

Mismatches

Indels

0

Gaps

0

Pred. No.

23-DEC-2002 ABS98279 standard; DNA; 21 (first entry) ВP

(LTF) gene polymorphic sequence #42.

ABS98279
ID ABS9827
XX KW cytochrome P450 A1; CYP4501A1; UGT2B4; MDR1;
KW cytochrome P450 A2; CYP4501A2; cytochrome P450 02E; CYP45002E1; LTF;
KW adrenergic receptor beta1; ADBR1; arryl hydrocarbon; AHR; MRP3; NR112;
KW aryl hydrocarbon receptor nuclear translocator; ARNT; cathepsin S; CTSS;
KW cyclooxgenase 2; COX2; diazepam binding inhibitor; DBI; haematological;
KW epoxide hydroxylase 2; EPHX2; 5-lipoxygenase activating protein; FLAP;
KW glutathione-5-transferase 12; GST12; histamine-N-methyl transferase;
KW HNMT; kallikrein 2; KLK2; nicotinamide-N-methyl transferase; NNMT;
KW NADPH quinone oxidoreductase 2; NQO2; sulfotransferase thermolabile; STM;
KW NADPH quinone oxidoreductase 214; UDP-glucuronosyl transferase 2B7;
WUP-glucuronosyl transferase 2D4; UDP-glucuronosyl transferase 2B7;
KW UDP-glucuronosyl transferase; UGT2B15; urokinase receptor; uPA;
KW multidrug resistance 1; lactotransferain; orphan nuclear receptor; uPA;
KW multidrug resistance associated protein 3; cancer; prostate;
KW multidrug resistance associated protein 3; cancer; prostate;
KW multidrug metabolism; cardiovascular function; colorectal tumour;
KW altered drug metabolism; cardiovascular function; colorectal tumour;
KW altered system; pulmonary; immunological; SNP; single nucleotide polymorphism

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CC molecule comprising at least one base variation from that of a known cytochrome P450 Al (CYP450)Al), cytochrome P450 Al (CYP450)Al (CYP450)Al), cytochrome P450 Al (CYP450)Al 
                  Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Isolated nucleic acid molecules having polymorphisms in known human gene.g. cytochrome p450 and cathepsin S useful as genetic linkage markers for locating, identifying and characterizing the genes responsible for disorder-related traits.
                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This invention relates to the sequence of an isolated nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 23; Page 148; 714pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2002-698522/75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          28-NOV-2000; 2000US-00724389
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 28-NOV-2001; 2001WO-US044838.
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                    Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DNA
                                                                             21
                                                                             B₽;
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    Conservative
                                                                             w
                                                                             A
                0.3%;
                                                                           6 C;
                                                                             7
                                                                             <u>ი</u>
0,
                                    Score 14.4;
                    Pred.
                                                                             5 T;
  Mismatches
                    No.
                                                                           0 U;
                                                                         0 Other;
                    .2e+03
                                      DB 1;
                                  Length 21;
Indels
0
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  genes
0
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RESULT 2189 ABA04623/c 음 성

2959

AGGGCTGCATTGCCCT 2974

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26-APR-2000;

28-APR-2000;

28-APR-2000;

01-MAY-2000;

01-MAY-2000;

01-MAY-2000;

01-MAY-2000;

02-MAY-2000;

03-MAY-2000;

03-MAY-2000;

03-MAY-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Padigaru M,
Rastelli L, I
Alsobrook JP;
         sequences are useful for treating or preventing a MOLX-associated disorder, such as cardiomyopathy, atherosclerosis, disorders related to cell signal processing and metabolic pathway modulation, diabetes and cancer. Additionally, MOLX proteins and coding sequences are useful for preventing and treating a variety of disorders including metabolic disorders, nutritional oedema, chronic and hereditary pancreatitis, obesity, infectious disease, anorexia, neurodegenerative disorders, haematopoietic disorders and various dyslipidaemias, metabolic syndrome Nalzheimer's disease, Parkinson's disease, Etroke, immune disorders, haematopoietic disorders and various dyslipidaemias, metabolic syndrome Nand wasting disorders associated with chronic diseases and cancers, cardiac disorders, hypertension, hypercalcamia, cirrhosis, angiogenesis and wound healing, trauma, glomerulonephritis, hyper and hypothyroidism, multiple sclerosis, lung diseases including asthma, Crohn's disease, sclerosis, lung diseases including asthma, Crohn's disease, sclerosis, autoimmune diseases, developmental disorders and neural tube
                                                                                                                                                                                                                                                                                                                                                                                Novel G-protein coupled receptor-related polypeptides and polynucleotides for diagnosing, preventing and treating cardiomyopathy, atherosclerosis, disorders related to cell signal processing and for identifying
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   neurodegenerative disorder; immune disorder; cardiac disorder; lung disease; autoimmune disease; developmental disorder; antidiabet Cytostatic; Neuroprotective; Antiatherosclerotic; Immunosuppressive;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOL; G-coupled protein-receptor; cardiomyopathy; atheocell signal processing; metabolic disorder; diabetes;
                                                                                                                                                                                                                                                        proteins and coding sequences (MOLX, where X is a number from 1 to ABA04589-ABA04603 and AAM47659-AAM47673). MOLX proteins and coding
                                                                                                                                                                                                                                                                                            The present invention relates to novel G-coupled protein-receptor related
                                                                                                                                                                                                                                                                                                                               Example 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2002-049278/06.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Boldog FL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Vernet
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (CURA-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              26-APR-2001; 2001WO-US013578
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gene therapy; Vaccine; antiinflammatory; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   15-SEP-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MOL3 forward
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CURAGEN CORP.
                                                                                                                                                                                                                                                                                                                           Page 162; 227pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Zerhusen BD, Sp
Patturajan M,
Macdougall JR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; 2000US-0200158P.
; 2000US-0200613P.
; 2000US-0200780P.
; 2000US-0201006P.
; 2000US-0201236P.
; 2000US-0201238P.
; 2000US-0201238P.
; 2000US-0201476P.
; 2000US-0201479P.
; 2000US-020591P.
; 2000US-0265160P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Zerhusen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PCR primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Fernandes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         S ER, Gerine.

BD, Spytek KA, Majun

jan M, Burgess CE, Gr

jan M, Taupier RJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gerlach V, Shimkets RA, Malyankar
pytek KA, Majumder K, Tchernev VT;
Burgess CE, Gangolli EA, Smithes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Grosse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ξ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            atherosclerosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Malyankar UM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Smithson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           antidiabetic;
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RESULT 2191
ADD14375/c
ID ADD14375 standard; DNA; 2:
XX
AC ADD14375;
XX
DT 01-JAN-2004 (first entry)
XX
DE Human src biomarker forwan
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ACC84942/c
ID ACC8494
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Best Local S
Matches 15
                                                                                                                                                                               Query Match
Best Local Similarity
Matches 15; Conserv
  Human src biomarker forward PCR primer SEQ ID NO:564
                                                                                                                                                                                                                                                 The invention relates to modulating the production of interferon (IFN)-gamma in a CD8plus+ cell. The method involves contacting a CD8+ T cell with an agent that modulates the expression and/or activity of T-bet. The present sequence represents a RT-PCR primer used in real time quantification of IFN-gamma transcripts
                                                                                                                                                                                                                                                                                                                                            Modulating the production of interferon-gamma in a CD8+ cell by contacting a CD8+ T cell with an agent that modulates the expression and/or activity of T-bet.
                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2003-513767/48.
                                                                                                                                                                                                                                                                                                                                                                                                                     Glimcher
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           illustrate the invention
                                                                                                                                                                                                                            Sequence 21 BP; 3 A; 4 C; 6 G; 8 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         03-DEC-2002; 2002WO-US038514.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ACC84942 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                        Example 27; Page 137; 210pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 03-DEC-2001; 2001US-00008264
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12-JUN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO2003048379-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         IFN-gamma transcript quantifying reverse primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  03-OCT-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                           (HARD ) HARVARD COLLEGE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Interferon;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2583 AGTACCAGCGACATCA 2598
                                                                                                                                                1532 CAAGAAAATCCTGCAG 1547
                                                                                                                                   21
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                                                                                                                                                                                                                                                                                                                                                                                                                    H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21 BP; 3 A;
                                                                                                                                   CATGAAAATCCTGCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGTACCAGCGACAGCA 5
                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   IFN-gamma; CD8; T cell; T-bet; T-box; RT-PCR; primer; 88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                     Szabo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                93.8%;
                                                                                                                                                                                       0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                    SJ;
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                                                                                                                                                                               Score 14.4; DB 1; Pred. No. 1.2e+03; 0; Mismatches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 14.4; DB 1;
Pred. No. 1.2e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
                                                                                                                                                                                                    DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 21;
                                                                                                                                                                                                     Length 21;
                                                                                                                                                                                Indels
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 RESULT 2192
ADD14268/c
ID ADD1426
XX .
AC ADD1426
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ADD14268

ADD14268 standard;

DNA;

21

17

GAACACAGCCCTGTCT

0;

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S
                                                                                                                                                          The present invention describes a predictor set comprising a plurality of copynucleotides or polypeptides whose expression pattern is predictive of the response of cells to treatment with a compound that modulates protein tyrosine kinase activity or members of the protein tyrosine kinase activity or members of the protein tyrosine kinase protein tyrosine kinase activity or members of the protein tyrosine kinase of copynucleotides activity of the cells, comprising obtaining a sample of cells, comprising obtaining a sample of cells, correlating the expression of the markers to the compound's ability to modulate the activity of the cells; (2) a plurality of cell lines for identifying polynucleotides and polypeptides whose expression levels correlate with compound sensitivity or resistance of cells associated with a disease state, comprising subjecting the plurality of cells associated with a disease state, comprising subjecting the plurality of cells associated with a disease state, comprising subjecting the plurality of cells associated with a disease state, comprising subjecting the plurality of cells associated with a disease state propounds, analysing the expression pattern of cells associated with a compound sensitivity or resistance of cells associated with a disease state propounds.
                                                              Matches
                                                                                    Query Match
Best Local :
                                                                                                                                                                                               a microarray of polynucleotides or polypeptides, and selecting polynucleotides or polypeptides that predict the sensitivity or resistance of cells associated with a disease state by using the expression pattern of the microarray. The polynucleotides and polypeptides have cytostatic activities, and can be used in gene therapy. The polynucleotides and polypeptides are useful in predicting the activity of compounds that interact with protein tyrosine kinases and/or protein tyrosine kinase pathways. These may be used in determining drug sensitivity in patients to allow the development of individualized genetic profiles which aid in treating diseases and disorders (e.g. cancer) based on patient response at a molecular level. The present sequence is used in the exemplification of the present invention.
                                                                                                                                                          Sequence 21 BP; 4 A; 3 C; 9 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New polynucleotides and polypeptides for predicting the activity of compounds that interact with protein tyrosine kinases and/or protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      predictor set; protein tyrosine kinase activity modulator; protein tyrosine kinase; cytos protein tyrosine kinase; cytos gene therapy; drug sensitivity; genetic profile; cancer; human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 2; SEQ ID NO 564; 139pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        tyrosine kinase pathways.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Huang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          17-JAN-2003; 2003WO-US001981
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       31-JUL-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2003-636735/60
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (BRIM ) BRISTOL-MYERS SQUIBB
                                                            Local Similarity
nes 15; Conserv
2607 GACCACAGCCCTGTCT 2622
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Fairchild CR,
                                                              Conservative
                                                                                  93.8%;
                                                                                                            0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Lee FY,
                                                            0;
                                                                                       Score 14.4;
Pred. No. 1.
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                                                              Mismatches
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                                                                                  1.2e+03
                                                                                                               멂
                                                                                                            1;
                                                                                                            Length
                                                                 Indels
                                                                                                            21,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cytostatic;
                                                              0,
                                                              Gaps
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01-JAN-2004

(first

entry)

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                                                                                                                                                                                                                                                                CC the response of cells to treatment with a compound that modulates protein CC tyrosine kinase activity or members of the protein tyrosine kinase activity or members of the protein tyrosine kinase CC pathway. Also described: (1) predicting whether a compound is capable of CC modulating the activity of cells, comprising obtaining a sample of cells, CC modulate the activity of the cells, comprising bataining a sample of cells, CC correlate with compound sensitivity or resistance of cells associated with a disease state, and (3) identifying polymucleotides and CC with a disease state, and (3) identifying polymucleotides and CC polypeptides that predict compound sensitivity or resistance of cells associated CC with a disease state, compounds sensitivity or resistance of cells associated CC cell lines to one or more compounds, analysing the expression pattern of CC amicroarray of polymucleotides or polypeptides, and selecting CC amicroarray of polymucleotides or polypeptides, and selecting CC polymucleotides or polypeptides that predict the sensitivity or resistance of cells associated with a disease state by using the compounds that incroarray. The polymucleotides and polypeptides in pattern of the microarray. The polymucleotides and gene therapy. CT polymucleotides and polypeptides are useful in predicting the compounds that incroarct with protein tyrosine kinases and/or CC polymucleotides and polypeptides are useful in determining drug sensitivity in pattents to allow the development of individualized connect) based on patient response at a molecular level. The present invertion
                                                                                                    Matches
                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 polymicleotides or polypeptides whose expression pattern is predictive the response of cells to treatment with a common attern is predictive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New polynucleotides and polypeptides compounds that interact with protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      18-JAN-2002; 2002US-0350061P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     17-JAN-2003; 2003WO-US001981
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PCR primer;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                predictor set; protein tyrosine kinase activity modulator;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 'n,
  17
                                                                                                 l Similarity
15; Conserv
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••
                                               ATCACCAGCCACAGTT 4929
                                                                                                                                                                                                                                                        18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          kinase pathways.
                                                                                                                                                                                                      21
  ATCACAAGCCACAGTT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQ ID NO 457; 139pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           88
                                                                                                                                                                                                 BP;
                                                                                                                                                                                                                                                      used
                                                                                                 Conservative
                                                                                                                                                                                                 4 A;
                                                                                                                                                                                                                                                   patient response at a molecula in the exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                sensitivity;
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                                                                                                                                                                                                 4 C;
                                                                                                                       93.8%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        pathway; protein tyrosine kinase;
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                                                                                                 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                         Score 14.4;
Pred. No. 1
                                                                                                                                                                                              7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              genetic profile;
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                                                                                                 Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Shaw
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  for predicting the activity of tyrosine kinases and/or protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    P.
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                                                                                                                       .2e+03
                                                                                                                                                 DB 1;
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                                                                                                                                                                                                                                                   present invention
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                                                                                                                                              Length
                                                                                                 Indels
                                                                                                                                                    21
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RESULT 2193

ss; primer;

probe

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ACC00264/c
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                                                                                                                                                                                                                                                                                                                                          Matches
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                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                      novel protein; G-coupled protein receptor-related protein; cardiomyopathy; atherosclerosis; cell signal processing-related disormetabolic pathway modulation-related disorder; diabetes; cancer; stro Hunnington's disease; epilepsy; anxiety; pain; hypercholesterolaemia;
                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention relates to a method for preparing maize with improved digestibility or altered lighth composition. The method involusing a nucleotide sequence which modulates synthesis of maize caffeic acid 3-0-methyltransferase (COMT), encoded by ACC00262. The maize produced by the method of the invention is useful as animal fodder. The present PCR primer was used in the construction of COMT transformation vectors which were used in an example from the invention
                     viral infections; bacterial infection; parasitic infection; hyperthyroidism; hypothyroidism; Von Hippel-Lindau syndrome; Alzheimer's disease; tuberous sclerosis; hypercalcaemia; cer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    composition, useful as animacid 3-0-methyltransferase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI;
                                                                                                                                         G-coupled protein receptor-related protein-related DNA sequence
                                                                                                                                                                   06-MAY-2004
                                                                                                                                                                                                                     ADJ87876 standard;
                                                                                                                                                                                                                                                                                                                                                                                             Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Preparation of maize with improved digestibility or altered lignin composition, useful as animal fodder, by modulating synthesis of ca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               30-AUG-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         06-MAR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      caffeic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Maize;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Maize
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     23-MAY-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACC00264;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACC00264 standard;
                                                           obesity; hypertension; Crohn's disease; systemic
                                                                                                                                                                                             ADJ87876
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pichon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     31-AUG-2001; 2001FR-00011326
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO2003018819-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (GENO-)
                                                                                                                                                                                                                                                                                                                                                      Local
                                                                                                                                                                                                                                                                                                                3958 TGCTGCACCTCCAGCA 3973
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2003-268426/26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMT
                                                                                                                                                                                                                                                                                       17
                                                                                                                                                                                                                                                                                                                                          15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Σ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMT methyltransferase; digestibility; lignin;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ۲.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENOPLANTE - VALOR
                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                                                       TGCAGCACCTCCAGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            methyltransferase-related PCR primer TOM22,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Beckert M,
                                                                                                                                                                                                                                                                                                                                                                                             BP; 4 A; 4 C; 9 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3-O-methyltransferase; animal fodder; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2002WO-FR002982
                                                                                                                                                                   (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DNA;
                                                                                                                                                                                                                       DNA;
                                                                                                                                                                   entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          70pp;
                                                                                                                                                                                                                                                                                                                                                      0.3%; Score
93.8%; Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Nadaud
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              French.
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                                                                                                                                                                                                                       ВP
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                                                                                                                                                                                                                                                                                                                                                                    Score
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                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Goffner
                                                                                                                                                                                                                                                                                                                                                      No.
                                                                                                                                                                                                                                                                                                                                                                   14.4;
                                                                                                                                                                                                                                                                                                                                                      1.2e+03
                        hypercalcaemia; cerebral palsy;
                                                                                                                                                                                                                                                                                                                                                                    DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ď
                                                                                                                                                                                                                                                                                                                                                                 Length 21;
                                                              lupus erythematosus;
                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PCR; primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ħ
                                                                                                                                                                                                                                                                                                                                         0;
                                                                                                    disorder;
                                                                                                                                         #6.
                                                                                                                                                                                                                                                                                                                                         Gaps
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                                                                                        stroke;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         involves
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DNA

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RESULT 2195
ADJ13065
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Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention comprises the amino acid and coding sequences of novel G-coupled protein receptor-related (MOL) proteins. The DNA and protein sequences of the invention are useful for treating or preventing a MOL-associated disorder, such as: cardiomyopathy, atherosclerosis, disorders associated with cell signal processing and metabolic pathway modulation, or diabetes. The DNA and protein sequences are also useful for the treatment of: cancer, stroke, Huntington's disease, epilepsy, anxiety, pain, hypercholesterolaemia, obesity, hypertension, Crohn's disease, systemic lugus erythematosus, viral infections, bacterial infections, parasitic infections, hyperthyroidism, hyperthyroidism, von Hippel-Lindau syndrome, Alzheimer's disease, tuberous sclerosis, hypercalcaemia, or cerebral paley. The present DNA sequence was used in the exemplification
                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New MOLX polypeptides and polynucleotides, useful in gene therapy, particularly for treating or preventing e.g. cardiomyopathy, atherosclerosis, diabetes, adenoma, brain tumor, breast cancer, prostate cancer, stroke or pain.
                             14-AUG-2003
                                                        US2003152950-A1
                                                                                                                                                      Human DNA probe used to immobilise CpG methylated DNA SeqID 192.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           18-JUN-2001; 2001US-0298994P.
18-JUN-2001; 2001US-0299134P.
04-OCT-2001; 2001US-00972446.
06-JUN-2002; 2002US-00299134.
07-JUN-2002; 2002US-00298994.
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27-JUN-2002; 2002US-00184085
                                                                                                                                                                                    20-MAY-2004
                                                                                                                                                                                                                                            ADJ13065 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure; SEQ ID NO 310; 378pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2003-167441/16.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (CURA-) CURAGEN CORP.
                                                                                                                                                                                                                                                                                                                                   2583 AGTACCAGCGACATCA 2598
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                                                                                                                                                                                                                                                                                                                                                                        15;
                                                                                                                            ss; chemical modification; methylation; array; CpG island;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           invention.
                                                                                                              suppressor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      n DW, Guo ...
A, Spaderna SK,
                                                                                                                                                                                                                                                                                                                                                                                     Similarity
                                                                                                                                                                                                                                                                                                                 AGTACCAGCGÁCAGCA 5
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                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                  (first entry)
                                                                                                              p16; human; H69; H1618
                                                                                                                                                                                                                                                                                                                                                                                 0.3%;
                                                                                                                                                                                                                                            DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gusev VY, ;
                                                                                                                                                                                                                                            21
                                                                                                                                                                                                                                            ΒP
                                                                                                                                                                                                                                                                                                                                                                      0;
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Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                        Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                     1.2e+03;
                                                                                                                                                                                                                                                                                                                                                                                                  DB 1; Length 21;
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                                                                                                                                                                                                                                                                                                                                                                        1; Indels
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RESULT 2196
ADM65276/c
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XX ADM6527
XX V
AC ADM6527
XX V
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Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This invention relates to a novel method for analysing chemically modified macromolecules. Specifically, it refers to a high throughput method for the parallel analysis of many potential sites of chemical modification (e.g. methylation) in DNA. The present invention describes treating the DNA with one or more chemical reagents that result in different base sequences depending upon the presence or absence of the modification of interest. Accordingly, a device comprising an array of probes is provided to hybridise with and select the altered DNA sequences that comprise the modifications of interest such as a CpG island. In particular, this invention refers to analysing the methylation pattern of a region of the promoter for the tumour suppressor gene pl6 from two human lung tumour cell lines H69 and H1618. This oligonucleotide sequence is a human DNA probe used to immobilise CpG methylated DNA of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                       ethnic origin determination; polymorphic site determination; Y chromosome; paternity testing; forensic; diagnosis; non-recombining region; human; NRY; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NRY polymorphism detection primer #290.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   different base sequences,
                                                                                                                                                                         01-NOV-2000; 2000US-0245355P
                                                                                                                                                                                                                           01-NOV-2001; 2001US-00002623.
                                                                                                                                                                                                                                                                                                                                             US2003134285-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              03-JUN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADM65276;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 1; SEQ ID NO 192; 210pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Analysis of chemical modification of DNA involves obtaining sample of to be analyzed, treating DNA with chemical reagents that result in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2003-874843/81.
                                                                                                                                                                                                                                                                                      17-JUL-2003.
                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADM65276 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (GARN/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (BALO/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (LUEB/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /NINIM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1225 ACCAGCAGCTCTCCCC 1240
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4
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) LUEBKE K J.
) BALOG R P.
                                                                                    OEFNER P J.
UNDERHILL P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GARNER H R.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.3%; Score 14.4; ilarity 93.8%; Pred. No. 1. Conservative 0; Mismatche
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BP; 5 A;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  12
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C; 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1.2e+03;
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Oefner PJ,

Underhill PA;

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ADM65310/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention describes a method of determining the ethnic origin of a comprising obtaining a nucleic acid sample from the male, and identifying at least two polymorphic markers in the nucleic acid sample cidentifying at least two polymorphic markers in the nucleic acid sample indicative of the ethnic origin of the male, using at least one primer pairs given in the specification. Also described is a method of: identifying polymorphic sites in a nucleic acid; a kit for determining the ethnic origin of an individual; determining the ethnic origin of an individual; determining the ethnic origin of an isolated nucleic acid segment of a human y chromosome comprising at least 10 contiguous bases including at least 10 contiguous bases including at least need to primer pairs for amplifying polymorphic regions of the y chromosome comprising at least 10 contiguous bases including at least one of the polymorphic sites given in the specification; nucleic acid primer pairs for amplifying polymorphic regions of the y chromosome comprision in the specification; and determining the paternity of a human male conditional. The method is useful for determining the ethnic origin of a midividual. The method is useful for determining the ethnic origin of a conditional regions a primer used to detect polymorphisms in the non-try.
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ethnic origin determination; polymorphic site determination; Y chromosome; paternity testing; forensic; diagnosis; non-recombining region; human; NRY; polymorphic fragment; ds
                                                                                                                    Determining sample from
                                                                                                                                                                                                                  WPI; 2003-843259/78
                                                                                                                                                                                                                                                                                                                                                                                                                              01-NOV-2000; 2000US-0245355P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Local Similarity
les 15; Conserv
                                                                                          nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2309
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                                                                                                                                                                                                                                                                            Ľď,
                                                                                                                                                                                                                                                                                                                                   OEFNER P J.
UNDERHILL P A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AACCATGATCCAAAAA 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AACCATCATCCAAAAA 2324
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                                                                                    the ethnic origin of a male by obtaining a nucleic acid
the male and identifying at least two polymorphic marke
acid sample indicative of the ethnic origin of the male
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BP;
                                                                                                                                                                                                                                                                            Underhill
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         non-recombining region polymorphic fragment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         '4 C; 4 G; 11 T;
                                                                                                                                                                                                                                                                            PA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 14.4; DB 1; Length 21; Pred. No. 1.2e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0 U;
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                                                                                       markers
he male.
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                                                                                                                    'n
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Claim

24; Page 40;

74pp; English

The invention describes a method of determining the ethnic origin of a male comprising obtaining a nucleic acid sample from the male, and identifying at least two polymorphic markers in the nucleic acid sample indicative of the ethnic origin of the male, using at least one primer pair from the primer pairs given in the specification. Also described is a method of: identifying polymorphic sites in a nucleic acid; a kit for determining the ethnic origin of an individual; determining the ethnic

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RESULT 2198
ADM65506/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CC The invention describes a method of determining the ethnic origin of a CC identifying at least two polymorphic markers in the nucleic acid sample conditions at least two polymorphic markers in the nucleic acid sample CC indicative of the ethnic origin of the male, using at least one primer CC pair from the primer pairs given in the specification. Also described is CC a method of: identifying polymorphic sites in a nucleic acid; a kit for CC determining the ethnic origin of an individual; determining the ethnic CC origin of a human male individual; an isolated nucleic acid segment of a human Y chromosome comprising at least 10 contiguous bases including at CC least one of the polymorphic sites given in the specification; nucleic CC acid primer pairs for amplifying polymorphic regions of the Y chromosome CC individual. The method is useful for determining the ethnic origin of a cC male, for paternity testing, for forensic studies or for diagnosis. This sequence represents a fragment of the non-recombining region of the human CC Y chromosome (NRY) comprising a polymorphism that can be used to
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Matches
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                                                                                                                                        Determining the ethnic origin of a male by sample from the male and identifying at lethe nucleic acid sample indicative of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                ethnic origin determination; polymorphic site determination; Y chromosome; paternity testing; forensic; diagnosis; non-recombining region; human; NRY; PCR; primer; ss.
                                                                                                                                                                                                                                                          (OEFN/)
                                                                                                                                                                                                                               Oefner PJ,
                                                                                                                                                                                                                                                                                                      01-NOV-2000; 2000US-0245355P
                                                                                                                                                                                                                                                                                                                                 01-NOV-2001; 2001US-00002623
                                                                                                                                                                                                                                                                                                                                                              17-JUL-2003.
                                                                                                              Claim
                                                                                                                                                                                                    WPI; 2003-843259/78.
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                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NRY polymorphism detection
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADM65506 standard;
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                                                                                                                                                                                                                                                          OEFNER P J
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         21
                                                                                                              Page 51; 74pp; English
                                                                                                                                                                                                                               Underhill PA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BP; 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                        PJ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; 4 C; 4 G; 11 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           primer #443.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 В₽
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No. 1.2e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                        by obtaining a nucleic acid
least two polymorphic marke
he ethnic origin of the male
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
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                                                                                                                                           markers
e male.
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RESULT 2199
ADM65146/c
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Best Local S
Matches 15
                         male comprising obtaining a nucleic acid sample from the male, and identifying at least two polymorphic markers in the nucleic acid sample indicative of the ethnic origin of the male, using at least one primer pair from the primer pairs given in the specification. Also described is a method of: identifying polymorphic sites in a nucleic acid; a kit for determining the ethnic origin of an individual; determining the ethnic origin of an individual; determining the ethnic origin of a human male individual; an isolated nucleic acid segment of a human Y chromosome comprising at least 10 contiguous bases including at least one of the polymorphic sites given in the specification; nucleic acid primer pairs for amplifying polymorphic regions of the Y chromosome given in the specification; and determining the paternity of a human male individual. The method is useful for determining the ethnic origin of a male, for paternity testing, for forensic studies or for diagnosis. This
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            origin of a human male individual; an isolated nucleic acid segment of a human Y chromosome comprising at least 10 contiguous bases including at least one of the polymorphic sites given in the specification; nucleic acid primer pairs for amplifying polymorphic regions of the Y chromosome given in the specification; and determining the paternity of a human male individual. The method is useful for determining the ethnic origin of a male, for paternity testing, for forensic studies or for diagnosis. This sequence represents a primer used to detect polymorphisms in the non-recombining region of the human Y chromosome (NRY).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Determining the ethnic origin of a male by obtaining a nucleic acid sample from the male and identifying at least two polymorphic markers the nucleic acid sample indicative of the ethnic origin of the male.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ethnic origin determination; polymorphic site determination; Y chromosome; paternity testing; forensic; diagnosis; non-recombining region; human; NRY; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Oefner PJ, Underhill PA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-NOV-2001; 2001US-00002623
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 24; Page 31; 74pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         01-NOV-2000; 2000US-0245355P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention describes a method of determining the ethnic origin of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (OEFN/) OEFNER P J.
(UNDE/) UNDERHILL P A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2309 AACCATCATCCAAAAA 2324
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for paternity testing,
nce represents a primer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AACCATGATCCAAAAA 3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             93.8%;
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0; Mismatches
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Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NRY; PCR; primer; 88.
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RESULT 2200
ADK96935/c
ID ADK9693
XX ADK9693
XX Primer
XX human;
XX lf-SEP-
XX human;
XX (KAGA-)
XX Novell |
PT fragmen;
XX Claim
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CC Juman;
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                                                                                                                    RESULT 2201
ADN38522/c
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Matches 15
                                                                                                                                                                                                                              Query Match
Best Local Similarity
Matches 15; Conserv
                                                                                                                                                                                                                                                                                                         The present invention relates to a polynuclectide isolated from a human gene and is useful for detecting a single nuclectide polymorphism in a human gene or for diagnosing of disease. The invention enables the detection of a single nuclectide polymorphism in a human gene. The present sequence represents a primer of the invention.
                      Novel human polypeptide MOL3 PCR primer #1.
                                                  17-JUN-2004
                                                                              ADN38522;
                                                                                                      ADN38522 standard; DNA;
                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                            Claim 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               JP2003259875-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADK96935 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                       nucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                              Novel polynucleotide useful for PCR amplification along with two
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               08-MAR-2002; 2002JP-00064373
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          08-MAR-2002; 2002JP-00064373
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                human; single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Primer of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         06-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADK96935;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               recombining region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16-SEP-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (KAGA-) KAGAKU GIJUTSU
                                                                                                                                                                                                   4392
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity 93.8
15; Conservative
                                                                                                                                                                           CGATTTGAGGATGGAG
                                                                                                                                                                                                  CGATTTGAGGGTGGAG 4407
                                                                                                                                                                                                                                                                                    21 BP; 6 A; 8 C; 3 G; 4 T; 0
                                                                                                                                                                                                                                                                                                                                                                                          SEQ ID NO 5964; 2627pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      21 BP; 2 A; 4 C; 4 G;
                                                                                                                                                                                                                                                                                                                                                                                                                    from another set of sequences, or le polymorphism in human gene.
                                                                                                                                                                                                                               Conservative
                                                  (first entry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   nucleotide polymorphism;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              invention #2655.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  of the human Y chromosome (NRY)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DNA;
                                                                                                                                                                                                                                           93.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       entry)
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                                                                                                                                                                                                                                            Score 14.4;
Pred. No. 1.
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Pred. No. 1
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                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                                    U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                  for detecting single
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   primer
                                                                                                                                                                                                                                                       Length 21;
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anti-HIV; cytostatic; antiarteriosclerotic; antidiabetic; antiasthmatic;

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01-MAY-2000;
01-MAY-2000;
02-MAY-2000;
03-MAY-2000;
03-MAY-2000;
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18-JUN-2001;
07-JUN-2002;
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15-SEP-2000;
22-JAN-2001;
30-JAN-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            antiinflammatory; haemostatic; hypotensive; neuroprotective; anorectic; nootropic; antidepressant; immunosuppressive; antibacterial; virucide; fungicide; protozoacide; tranquilizer; anticonvulsant; osteopathic; analgesic; antiparkinsonian; dermatological; antiinfertility; cerebroprotective; antiaddictive; MOLX-associated disorder; cardiomyopathy; atherosclerosis; diabetes, cell signal processing; metabolic pathway modulation; cancer; Von Hippel-Lindau syndrome; Alzheimer's disease; stroke; tuberous sclerosis; hypercalcaemia; Parkinson's disease; multiple sclerosis; ataxia-telangiectasia; lesch-Nyhan syndrome; multiple sclerosis; ataxia-telangiectasia;
Vernet CAM,
Boldog FL,
Padigaru M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                leukodystrophy; addiction; anxiety; depression; pain; obesity; Crohn's disease; osteoporosis; inflammatory bowel disease; infertility; hypertension; scleroderma; happophilia; pancreatitis; autoimmune disease; asthma; arthritis; immunodeficiency; HIV; infection; graft-versus-host disease; gene therapy; vaccine; tissue typing; pharmacogenomic; human; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         22
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28-APR-2000;
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                                                                                                                                                  (SZEK/)
                                                                                                                                                                                     (MACD/)
(TAUP/)
(GROS/)
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(PADI/)
(PATT/)
(BURG/)
(GANG/)
(GMIT/)
(RAST/)
                                                                                                                                                                                                                                                                                                                                                                        (SPYT/)
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(SHIM/)
(MALY/)
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) FERNANDES E
                                                                                                                                                                                                                                                                                             MALYANKAR U M.
BOLDOG F L.
ZERHUSEN B D.
SPYTEK K A.
SPYTEK K A.
TCHERNEV V T.
PADIGARU M.
PATTURAJAN M.
BURGESS C E.
                                                                                                                                                GROSSE W M
SZEKERES E
ALSOBROOK
                                                                         LI L.
                                                                                                               ପ୍ର
                                                                                                                                                                                                      TAUPIER R J.
                                                                                                                                                                                                                      RASTELLI L.
MACDOUGALL J R.
                                                                                                                                                                                                                                                              SMITHSON
                                                                                                                                                                                                                                                                                 GANGOLLI
Fernandes ER, Gerlach V, Shimkets RA, Malyankar UM;
Zerhusen BD, Spytek KA, Majumder K, Tchernev VT;
Patturajan M, Burgess CE, Gangolli EA, Smithson G;
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2000US-0200613P.
2000US-0200780P.
2000US-0201006P.
2000US-0201238P.
2000US-0201238P.
2000US-0201238P.
2000US-0201186P.
2000US-0201474P.
2000US-0201508P.
2000US-0201508P.
2000US-0201508P.
2000US-0201508P.
2000US-020508P.
2000US-020508P.
2000US-020508P.
2000US-0263217P.
2001US-0263217P.
2001US-0263217P.
2001US-0263217P.
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2001US-0298994P.
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Συς.
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RESULT 2202
ADP48222
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention describes an isolated molecule (MOLX) polypeptide. The MOLX CC polypeptide, MOLX nucleic acid and antibody are useful for treating, a preventing or alleviating a MOLX-associated disorder or a pathological CC state in a subject, particularly a human. In particular, the disorder is cardiomyopathy, atherosclerosis, diabetes, or a disorder related to cell CC signal processing and metabolic pathway modulation. The MOLX polypeptide and nucleic acid are also useful for diagnosing the presence of or CC predisposition to a disease associated with altered levels of MOLX, CC particularly cancer. The MOLX nucleic acid and polypeptide are especially useful in the manufacture of a medicament for therapeutic or prophylactic CC applications for disorders associated with aberrant MOLX expression or CC tuberous sclerosis, hypercalcemia, Parkinson's disease, Huntington's CC disease, carebral palsy, epilepsy, Lesch-Nyhan syndrome, multiple CC sclerosis, ataxia-telangiectasia, leukodystrophies, addiction, anxiety, CC bowel disease, infertility, hypertension, scleroderma, hemophilia, CC pancreatitis, autoimmune disease, asthma, arthritis, immunodeficiencies, CC disease, infertility, hypertension, scleroderma, hemophilia, CC pancreatitis, autoimmune disease, asthma, arthritis, immunodeficiencies, CC disease. The DNA encoding the protein is useful in gene therapy for treating the above conditions. This sequence represents a primer used in the isolation of DNA encoding a novel human MOLX polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local
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Alsobrook JP,
                                                                                                                                                                                                                                                                           protein kinase; MRCK1; myotonic dystrophy kinase; Cdc42 binding kinase;
MRCK; kinase-related disease; short inhibitory RNA; siRNA; human; ss.
                                                                                                                                                                                                                                                                                                                                                                 09-SEP-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 21 BP; 3 A; 5 C; 6 G; 7 T; 0 U;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New isolated molecule (MOLX) polypeptide, useful for diagnosing, treating or preventing MOLX-associated diseases, such as infarction,
                                                                                                                                   07-NOV-2003; 2003WO-US035609
                                                                                                                                                                       17-JUN-2004.
                                                                                                                                                                                                          WO2004050831-A2
                                                                                                                                                                                                                                                                                                                               Human MRCK1 sense strand siRNA sequence SeqID257
                                                                                                                                                                                                                                                                                                                                                                                                                                      ADP48222 standard; RNA; 21
                                                                                                                                                                                                                                         Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                    ADP48222;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2583 AGTACCAGCGACATCA 2598
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    93.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                        ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0,
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Pred. No. 1.2e+03
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    sclerosis, Crohn's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0 Other;
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L, Zhong M;
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Water and the second

Liu W,

Wu L;

(AMHP)

WYETH. LIU W. WU L.

(WULL/)

27-NOV-2002; 2002US-0429381P

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RESULT 2203
ADP48221
ID ADP4822
XX ADP4822
XX ADP4822
XX DP4822
XX DP5 D7-N(
XX D1-N(
XX D
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Best Local Simi
Matches 11;
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                                                                                                                                                                                                                                                                                                                                                                                                             (AMHP) WYETH.
(LIUW/) LIU W.
(WULL/) WU L.
                                                                                                                                                                        New human protein kinase MRCK1 with 65% sequence homology to dystrophy kinase-related Cdc42-binding kinase (MRCK), useful diagnostics and as a drug target.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human MRCK1 siRNA target DNA sequence SeqID256.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO2004050831-A2
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                                                                                                                                                                                                                                                                                                                                                       Wu L;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
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nilarity 68.8%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   and as a drug target.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              disease; short
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ВР
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 14.4; DB 1;
Pred. No. 1.2e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     dystrophy kinase; Cdc42 binding hort inhibitory RNA; siRNA; ds;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Cdc42 binding kinase; A; siRNA; ds; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21,
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nucleic and the

novel human protein

sequence,

to a novel isolated polynucleotide comprising the human MRCK1 gene located at position 11q1: otein kinase MRCK1 encoded by it. The sequence

at position 11q13, it. The sequence of

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Sequence 21

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6 A;

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7 G.

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Other;

This invention relates to

Disclosure; SEQ ID NO 256; 92pp; English.

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RESULT 2204
ADP48057
ID ADP4805
XX ADP4805
XX DP SEP-
XX Protein
KW Protein
KW Protein
KW MRCK; )
XX Homo sa
PN W02004(
XX Homo sa
XX Homo sa
PN W7-NOV-
XX O7-NOV-
XX O7-NOV-
XX WPI; 2
PR (LIUW/
PA (MULL/
XX WPI; 2
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Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 the invention has sequence homology to rat myotonic dystrophy kinase-related Cdc42 binding kinase-(NRCK). The invention may be useful for diagnosing, prognosing, and treating kinase-related diseases, preferably diseases associated with aberrant expression of MRCKI. The present sequence is that of a DNA sequence which is part of the human MRCKI gene which may be a target for a short inhibitory (eiRNA) sequence and which is related to the invention. Note: The sequence data for this pattent did not form part of the printed specification but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
                                                                                            This invention relates to a novel isolated polynucleotide comprising a nucleic acid sequence, the human MRCKI gene located at position 11q13, and the novel human protein kinase MRCKI encoded by it. The sequence of the invention has sequence homology to rat myotonic dystrophy kinase-related Cdc42 binding kinase (MRCK). The invention may be useful for diagnosing, prognosing, and treating kinase-related diseases, preferably diseases associated with aberrant expression of MRCKI. The present sequence is that of a short inhibitory (siRNA) sequence which is targeted towards the human MRCKI gene and which is related to the invention. Note: The sequence data for this patent did not form part of the printed specification but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (AMHP) WYETH.
(LIUW/) LIU W.
(WULL/) WU L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; SEQ ID NO 92; 92pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New human protein kinase MRCK1 with 65% sequence homology to dystrophy kinase-related Cdc42-binding kinase (MRCK), useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2004-461109/43.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                protein kinase; MRCK1; myotonic dystrophy kinase; Cdc42 binding kinase; MRCK; kinase-related disease; short inhibitory RNA; siRNA; human; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human MRCK1 sense strand siRNA sequence SeqID92.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     diagnostics and as a drug target.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  27-NOV-2002; 2002US-0429381P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   07-NOV-2003; 2003WO-US035609.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADP48057 standard;
                                                                    ftp.wipo.int/pub/published_pct_sequences
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CAGAAGGTCTTCCTGC 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                entry)
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Pred. No. 1.2e+03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
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RESULT 2205
ADP48176
ID ADP4817
XX ADP4817
XX DP9-SEP-
XX Protein
KW WO2004
PN WO2004
PN WO2004
PN WO2004
CX W WO17-JUN-
XX (AMHP)
PA (LIUW)
PA (LIUW)
PA (MULL/)
XX WPI; 20
XX Disclos
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                                                                                                            Best Local Similarity
Matches 15; Conserv
                                                                                                                                             Query Match
Best Local
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                                                                                                                                                                                                                                                                        This invention relates to a novel isolated polynucleotide comprising a nucleic acid sequence, the human MRCKI gene located at position 11q13, and the novel human protein kinase MRCKI encoded by it. The sequence of the invention has sequence homology to rat myotonic dystrophy kinase related Cdc42 binding kinase (MRCK). The invention may be useful for disposing, prognosing, and treating kinase-related diseases, preferably diseases associated with aberrant expression of MRCKI. The present sequence is that of a DNA sequence which is part of the human MRCKI gene which may be a target for a short inhibitory (siRNA) sequence and which is related to the invention. Note: The sequence data for this patent did not form part of the printed specification but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                              Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure; SEQ ID NO 211; 92pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           diagnostics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New human protein kinase MRCK1 with 65% sequence homology to dystrophy kinase-related Cdc42-binding kinase (MRCK), useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2004-461109/43.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   protein kinase; MRCK1; myotonic dystrophy kinase; Cdc42 binding kinase; MRCK; kinase-related disease; short inhibitory RNA; siRNA; ds; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human MRCK1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (WULL/)
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(LIUW/) LIU W.
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                                 1651 GAGAAGGCTTCTGCCA 1666
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Wu L;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GAGAAGGAUUCUGCCA 16
GAGAAGGATTCTGCCA 16
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ilarity 75.0%;
Conservative
                                                                                                            0.3%;
ilarity 93.8%;
Conservative
                                                                                                                                                                                                                              BP; 7 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     and as a drug target.
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                                                                                                                                                                                                                              4 C; 7 G; 3 T; 0 U; 0 Other;
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••
                                                                                                                                          Score 14.4;
Pred. No. 1.
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Pred. No. 1.2e+03;
                                                                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                       1.2e+03
                                                                                                                                                                  DB 1;
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                                                                                                                                                               Length 21;
                                                                                                               Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   rat myotonic in
                                                                                                            Gaps
                                                                                                            0
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RESULT 2206 ADP48068 ID ADP4806

ADP48068 standard; DNA; 21

ВP

Cytomegalovirus target sequence

40.

entry)

RNA; enzyme; enzymatic RNA molecule; ERM; cleave; RNA; mRNA; HnRNA; picornavirus; HIV; immunodeficiency virus; hepatitis B virus; HBV; paptilloma virus; HPV; Epstein-Barr virus; BEV; TCLV; T-cell leukaemia virus; hepatitis C virus; HCV; cytomegalovirus;

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RESULT 2207
AAQ52863
                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This invention relates to a novel isolated polynucleotide comprising a nucleic acid sequence, the human MRCKI gene located at position 11q13, and the novel human protein kinase MRCKI encoded by it. The sequence of the invention has sequence homology to rat myotonic dystrophy kinase-related Cdc42 binding kinase (MRCK). The invention may be useful for diagnosing, prognosing, and treating kinase-related diseases, preferably diseases associated with aberrant expression of MRCKI. The present sequence is that of a DNA sequence which is part of the human MRCKI gene which may be a target for a short inhibitory (siRNA) sequence and which is related to the invention. Note: The sequence data for this pattent did not form part of the printed specification but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New human protein kinase MRCK1 with 65% sequence homology to dystrophy kinase-related Cdc42-binding kinase (MRCK), useful diagnostics and as a drug target.
  25-MAR-2003
26-MAY-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 21 BP; 5 A; 5 C; 6 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure; SEQ ID NO 103; 92pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 09-SEP-2004
                                                                               AAQ52863;
                                                                                                                              AAQ52863 standard; RNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Liu W,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             27-NOV-2002; 2002US-0429381P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            07-NOV-2003; 2003WO-US035609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17-JUN-2004.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                protein kinase; MRCK1; myotonic dystrophy kinase; Cdc42 binding kinase;
MRCK; kinase-related disease; short inhibitory RNA; siRNA; ds; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human MRCK1 siRNA target DNA sequence SeqID103
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                                                                                                                                                                                                                                                                                          2388 CAGAAGGTCTTCCTAC 2403
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15; Conserv
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                                                                                                                                                                                                                                                           CAGAAGGTCTTCCTGC 16
                                                                                                                                                                                                                                                                                                                                                            Conservative
(revised)
(first ent
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Pred. No.
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Query Match
Best Local S
Matches 12
                                                                                                                                                                                  sequences (AAQ52824-Q52890) are pref. Cytomegalovirus target sequences for enzymatic RNA molecules. The RNA molecules are complementary to a substrate binding region in the specified gene target. They also have enzymatic activity, in that they specifically cleave RNA in the target. The ERMs interfere with viral replication and therefore have anti-viral properties. They can be used to attenuate viruses to be used in vaccines. (Updated on 25-MAR-2003 to correct PN field.) (Updated on 25-MAR-2003 to correct PR field.)
                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                Claim 5; Fig 13; 287pp;
                                                                                                                                                                                                                                                                                                                                                                                                Enzymatic RNA molecules
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Draper
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             11-MAY-1992;
14-MAY-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  influenza virus; HSV; herpes simplex virus; vector; immune response; antibody; ribozyme; viral RNA; treatment; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (RIBO-) RIBOZYME PHARM
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                                                                                                         Similarity
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                                                         AGGATGGTTCTGAGGA 1516
                                                                                                                                                                                                                                                                                                                                                                                 expression.
                                                                                         Conservative
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92US-00935854.
92US-00936086.
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92US-00884521.
92US-00923738.
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92US-00884073.
92US-00884074.
92US-00884333.
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92US-00884436
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92US-00882712
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                                                                                                                                                                                                                                                                                                                                                English.
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                                                                                                                                                       10 G; 0 T; 3 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                              used to inhibit viral replication, infection
                                                                                         Score 14.4; DB 1;
Pred. No. 1.3e+03;
3; Mismatches 1
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                                                                                                                        DB 1; Length 22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Holecek
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                                                                                         Gaps
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                                                                                                       RESULT 2209
AAV51719
ID AAV5171
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                                                                                                                                                                                                                                                  Query Match
Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                             Sequences were determined from the ends of chromosome 11-specific cosmids by automated sequencing without intermediate subcloning. A sample of 371 DNA sequence fragments were determined and of these, 277 were suitable for STS primer prediction by computer analysis (using the "primer" program available from E.Lander, MIT). The STSs and cosmids were mapped by in situ hybridisation, somatic cell hybrid analysis or both. Using this method, 370 STSs specific for human chromosome 11 were generated and most of them were regionally mapped. This procedure illustrates a novel method for sequencing complex genomes designated "sequence sampled mapping". The sequence sampled mapping method is useful for the completion of high density sequence-based maps, and ultimately, for the complete sequencing of genomic DNA directly from cosmid clones. See AAQ82001-082706 for STS primers. (Also see AAQ91325-58). (Updated on 25-MARR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequencing complex genomes, present as fragments in a cosmid library -sequencing end-specific nucleotides of each clone then correlating with spatial relationship of cosmid, esp. for mammalian chromosomes.
           Zea mays genome reverse PCR primer #15
                                          02-FEB-1999
                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 4; Page 79; 128pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15-JUN-1993;
07-SEP-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        sequence sampled mapping; genomic analysis; complex genome mapping; cosmid library; chromosome 11; sequence tagged site; STS analysis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Chromosome
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11-SEP-1995
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                                                                                                         AAV51719 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 1995-036508/05.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Evans GA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               22-DEC-1994.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                15-JUN-1994;
                                                                                                                                                                                                                      1556 GTCACAGAAATTTCTG 1571
                                                                                                                                                                                        19
                                                                                                                                                                                                                                                     1 Similarity
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                                                                                                                                                                                          GTCACAGAGATTTCTG
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                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                  BP; 7
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(first ent
                                          (first entry)
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93US-00117952.
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                                                                                                                                                                                                                                                                                                                  A; 7 C; 4 G; 4 T;
                                                                                                         DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DNA;
                                                                                                                                                                                                                                                               0.3%;
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Pred. No. 1
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RESULT 2210
AAX10138/c
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                   AAV51705-V52008 are reverse PCR primers used to amplify fragments of the Zea may genome in order to detect polymorphic markers. Such markers can be used in the construction of allele-specific primers and probes for amplification or hybridisation, e.g. to determine common or disparate ancestry between 2 or more plants, to monitor the genetic contribution of an ancestral plant, to trace the progeny of proprietary plants, in certification of a hybrid plant or to identify the progeny of a back-crossed plant with an ancestral plant
                                                                                                                                             Polymorphism; biallelic; human; forensic; paternity testing; disease detection; phenotypic typing; characteristic; infection; hereditary; autoimmune disease; cancer; inflammation; drug; therapy; medicament;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Polymorphic marker; allele-specific; probe; amplification; PCR primer; hybridisation; plant; hybrid certification; genetic contribution; progeny; back-cross; hybrid; ancestry; corn; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           02-DEC-1996;
07-MAR-1997;
          06-NOV-1996;
                                05-NOV-1997;
                                                       14-MAY-1998
                                                                              WO9820165-A2
                                                                                                                                                                                           Human biallelic polymorphic marker downstream
                                                                                                                                                                                                                                                                 AAX10138 standard; DNA; 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 1998-333252/29
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic.
                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (AFFY-) AFFYMETRIX INC.
                                                                                                                                                                                                                                                                                                                                                 590
                                                                                                                                                                                                                                                                                                                                                                      l Similarity
15; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   species allele-specific oligonucleotide probes and
or plant breeding.
                                                                                                                                                                                                                                                                                                                          GAGCTTCCTCGTACGT 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Page 50;
                                                                                                                                                                                                                                                                                                                                                                                                                   B₽;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Landry BS,
                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                    (first entry)
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97US-00813507.
          96US-0030455P
                                97WO-US020313.
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                                                                                                                                                                                                                                                                                                                                                                                                                  4 A;
                                                                                                                                     primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             65pp; English.
                                                                                                                                                                                                                                                                                                                                                                               0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                   6 C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sapolsky RJ,
                                                                                                                                                                                                                                                                                                                                                                                                                   7 G;
                                                                                                                                                                                                                                                                                                                                                                      0,
                                                                                                                                                                                                                                                                                                                                                                                  Score 14.4;
Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                   5 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                       Mismatches
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                                                                                                                                                                                                                                                                                                                                                                               1.3e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                   0 Other;
                                                                                                                                                                                                                                                                                                                                                                                           DB 1;
                                                                                                                                                                                            primer #444
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                                                                                                                                                                                                                                                                                                                                                                                          Length 22;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      isolation of various biallelic polymorphic markers found in the human genome (represented in AAX10269-X12937). These primers can be used in a method for determining polymorphic forms in an individual for use in e.g. forensics, paternity testing or for phenotypic typing for diseases such as agammaglobulinemia, diabetes insipidus, Lesch-Nyhan syndrome, muscular dystrophy, Wiskott-Aldrich syndrome, Fabry's disease, familial hypercholesterolemia, polycystic kidney disease, hereditary spherocytosis, von Willebrand's disease, tuberous sclerosis, hereditary haemorrhagic telangiectasia, familial colonic polyposis, Ehlers-Danios syndrome, osteogenesis imperfecta, acute intermittent porphyria, autoimmune diseases, inflammation, cancer, diseases of the nervous system, infection by pathogenic microorganisms, and characteristics such as a longerity samples of the carrietics such
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          as longevity, appearance (e.g. baldness, obesity), strength, speed, endurance, fertility, and susceptibility or receptivity to particular drugs or therapeutic treatments. The isolated polymorphic nucleic acid
                                                                                                                                                                                                                                                                                                  Polymorphism; biallelic; human; forensic; paternity testing; disease; detection; phenotypic typing; characteristic; infection; hereditary; autoimmune disease; cancer; inflammation; drug; therapy; medicament;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New isolated nucleic acid segments from the human genome - used for determining polymorphic forms for use in e.g. forensics, paternity testing or phenotypic typing for disease.
                                                                                                                                                                  14-MAY-1998.
                                                                                                                                                                                                                                                    Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                       24-MAR-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAX09483 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 22 BP; 7 A; 6 C; 4 G; 5 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            segments can also be used to produce medicaments for the treatment or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAX09121-X10268 are allele-specific oligonucleotide primers used in the isolation of various biallelic polymorphic markers found in the human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 16; Page 204; 310pp; English.
                               Lander ES,
                                                                                                06-NOV-1996;
                                                                                                                                 05-NOV-1997;
                                                                                                                                                                                                   WO9820165-A2
                                                                                                                                                                                                                                                                                    treatment;
                                                                                                                                                                                                                                                                                                                                                                    Human biallelic polymorphic marker upstream primer #363
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            prophylaxis
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                                                              (WHED)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           al Similarity
15; Conserv
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                                                                WHITEHEAD INST
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f
                           Wang D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ilarity 93.8%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
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                                                                                                96US-0030455P
                                                                                                                                 97WO-US020313
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DNA;
                                                                                                                                                                                                                                                                                    primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              diseases
                               Hudson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0.3%;
                                                                BIOMEDICAL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 14.4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1.3e+03
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WPI; 1998-286974/25

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RESULT 2212
AAV68402/c
ID AAV6840
XX AAV6840
XX D5-MAY-
DT O5-MAY-
XX Transcr
KW Transcr
KW Atplica
KW BAZ2-be
KW PCR pri
XX PCR Pri
XX W09847!
XX W09847!
XX 11-APR
XX 11-APR
XX 12-OCT
XX PR 11-APR
XX PR 18-APR
PR 24-OCT
XX PR 18-APR
PR 18-A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             isolation of various bialledic polymorphic markers found in the human commethod for determining polymorphic forms in an individual for used in a method for determining polymorphic forms in an individual for used in a commethod for determining polymorphic forms in an individual for used in a commethod for determining polymorphic forms in an individual for used in a gent and the human commethod for determining polymorphic forms in an individual for used in a commethod for determining polymorphic forms in an individual for used in a commethod for used in a commethod for diseases such as against polybulinemia, diabetes insipidual, Lesch-Nyhan syndrome, muscular dystrophy, Wiskott-Aldrich syndrome, Fabry's disease, hereditary spherocytosis, von Willebrand's disease, tuberous sclerosis, hereditary syndrome, osteogenesis imperfecta, acute intermittent porphyria, autoimmune diseases, inflammation, cancer, diseases of the nervous system, infection by pathogenic microorganisms, and characteristics such as longevity, appearance (e.g. baldness, obesity), strength, speed, endurance, fertility, and susceptibility or receptivity to particular drugs or therapeutic treatments. The isolated polymorphic nucleic acid segments can also be used to produce medicaments for the treatment or prophylaxis of such diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local S
Matches 15
Transcriptional regulator gene expressed in testis tissue and other proliferative disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New isolated nucleic acid segments from the human genome - used for determining polymorphic forms for use in e.g. forensics, paternity testing or phenotypic typing for disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Transcriptional regulator; transcription; BAZ1-alpha; bromodomain; BAZ; atypical zinc finger; testis; human; tumour; BAZ1-beta; BAZ2-alpha; dru BAZ2-beta; treatment; cancer; proliferative disorder; screening;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human BAZ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            05-MAY-1999
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                                                                                                                              WPI; 1998-583603/49
                                                                                                                                                                                                                                                                                                              18-APR-1997;
24-OCT-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WO9847920-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAV68402
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAV68402 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAX09121-X10268 are allele-specific oligonucleotide primers used in the isolation of various biallelic polymorphic markers found in the human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 15;
                                                                                                                                                                                                                                                  (CHUS ) CHUGAI
                                                                                                                                                                                                                                                                                                                                                                                                      17-APR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  29-OCT-1998
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 22 BP; 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Page 99; 310pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                gene
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                                                                                                                                                                                                                                                                                                              97JP-00116570.
97JP-00310027.
                                                                                                                                                                                                                                                                                                                                                                                                      98WO-JP001783
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; 6 C; 4 G; 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA;
                                                                                                                                                                                                                                                  INST MOLECULAR MEDICINE INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            entry)
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); Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 14.4; DB 1;
Pred. No. 1.3e+03;
                                  family containing bromodomain - may be is useful for treatment of cancer and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              T, 0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 22;
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RESULT 2213
AAA55482
ID AAA5548
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Best Local S
Matches 15
                                                                                                                                                                                                                                                                        29-JUL-1994;
23-NOV-1994;
23-NOV-1994;
30-JAN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  members of a family of transcriptional regulator genes containing a bromodomain (BAZ, Bromodomain with Atypical Zinc finger) which are expressed specifically in testis tissue and also in certain tumour lines. Transgenic cells may be used for the preparation of the BAZ1-alpha, BAZ1-beta, BAZ2-alpha and BAZ2-beta proteins. These proteins can be used in the treatment of concer and other proliferative disorders, and in screening of compounds for their binding ability to the expression products (e.g. for use as drugs by modulation of transcriptional
The present invention describe a method for detecting target hepatitis Grain (HGBV) nucleic acid (THN) in a test sample (T) suspected of containing HGBV. The method involves reacting (T) with a HGBV polynucleotide probe (I) containing 15 contiguous nucleotides, and which selectively hybridises to the HGBV genome or its full complement, and detecting the complex that contains THN, indicating the presence of
                                                                                                                     Detecting target hepatitis GB virus nucleic acid in a test sample suspected of containing HGBV comprises reacting the test sample the polynucleotide probe and detecting the complex that contains target
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 22
                                                                                              Disclosure; Col
                                                                                                                                                                                                        Dawson GJ, L
Mushahwar IK,
                                                                                                                                                                                                                                                                                                                               14-FEB-1994;
13-MAY-1994;
                                                                                                                                                                                                                                                                                                                                                                        07-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Hepatitis GB virus;
detection; character
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   06-AUG-2003
30-AUG-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAA55482;
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                                                                                                                                                                                                                                                                                                                                                                                                                             US6051374-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Hepatitis GB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Hepatitis GB virus related oligonucleotide sequence SEQ ID NO:708
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAA55482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 2; Page 90; 187pp; Japanese
                                                                                                                                                                                                                                                (ABBO ) ABBOTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           regulation)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2805
                                                                                                                                                                               2000-338307/29.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GGAGAAAATGAAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GGAGGAAATGAAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 characterisation;
                                                                                                                                                                                                          Leary TP,
K, Simons
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP; 2 A; 8 C; 3 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                       virus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (revised)
(first entry)
                                                                                                                                                                                                                                                                        94US-00196030.
94US-00242654.
94US-00283314.
94US-00344185.
94US-00344190.
95US-00377557.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 represents a PCR primer used in the amplification
                                                                                                                                                                                                                                                LAB.
                                                                                                                                                                                                                                                                                                                                                                        95US-00488445.
                                                                                             627-628; 369pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              HGBV;
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                                                                                                                                                                                                       Muerhoff AS,
JN, Desai SM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 diagnosis; therapeutic; immunogenic; infection;
on; hepatitis; ss.
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Pred. No. 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ou,
                                                                                                                                                                                                        Pilot-Matias TJ, Buijk SL;
Erker JC, Schlauder GG;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        .3e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0 Other;
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AAA15054/c
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Best Local S
Matches 15
                                      PCR primers AAA15054-55 were used to produce deletion mutants of the invasin protein TpaC. The specification describes a method for the production of recombinant invasin proteins which are superior to presently approved adjuvants due to their low toxicity, their ability to stimulate both peripherals and mucosal immune response, and ease of production. The invasin protein may be used as a vaccine and as an adjuvant for the prevention of diseases such as shigellosis, salmonellosis and diseases caused by enteroinvasive E. coli, and in stimulating the immune system of immuno-compromised individuals. The invasin protein is also useful for intracellular delivery of therapeutic and diagnostic agents, and to stimulate immune response by cells in the object of the protein can be mixed with antigens of biological or other invasin protein can be mixed with antigens of biological or
                                                                                                                                                                                                                                                                                     New purified recombinant invasin proteins IpaC and SipC adjuvant and vaccine against shigellosis, salmonellosis enteroinvasive Escherichia coli.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         target HGBV. The method is used for detecting target HGBV nucleic acid in the test sample suspected of containing HGBV and for characterisation of newly ascertained etiological agent mon-A, non-B, non-C, non-D and non-E hepatitis causing agents collectively termed as hepatitis GB virus.

AAA55270 to AAA55489 and AAB08985 to AAB09480 represent nucleotide and protein sequences used in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Invasin protein; IpaC; mucosal immune response; vaccine; adjuvant; shigellosis; salmonellosis; enteroinvasive E. coli; immune system; immuno-compromised; intracellular delivery; antigen; PCR primer; s
                                                                                                                                                                                                                                                                                                                                                                                                                                                       21-OCT-1998;
01-JUN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Shigella flexneri
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAA15054 standard; DNA; 22 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 22
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PCR primer for production of invasin protein IpaC deletion mutants
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21-AUG-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Updated on
                                                                                                                                                                                                                                                                                                                                                         2000-339646/29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 Similarity
15; Conserv
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                              origins to elicit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GGGCATGGCATCCCAC
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                                                                                                                                                                                                                                                         Page 42;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BP; 4 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               06-AUG-2003 to correct OS field.)
                                                                                                                                                                                                                                                                                                                                                                                       Picking
                                                                                                                                                                                                                                                                                                                                                                                                                       ST LOUIS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                       98US-0105085P.
99US-0136754P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      99WO-US024931
                                                                                                                                                                                                                                                     78pp;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               7 C; 7 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               19
                                                                                                                                                                                                                                                         English
                                                                                                                                                                                                                                                                                                                                                                                         Oake
                              an immune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 14.4; DB 1;
Pred. No. 1.3e+03;
                                                                                                                                                                                                                                                                                                                                                                                         E۷
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                              response to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                            antigen
                                                                                                                                                                                                                                                                                                        useful
and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               22;
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                                                                                                                                                                                                                                                                                                                         96
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Query Match

Sequence

22 BP; 10 A; 3 C; 5 G; 4 T; 0 U;

0 Other; BB

Score 14.4;

1:

Length 22;

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RESULT 2215
AAA96313
ID AAA9631
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**Matches 15; Conserv
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PCR primers AAA96313-15 were used to amplify cDNA encoding a secreted or transmembrane polypeptide. The specification describes polypeptides designated pR01484, PR04334, PR01122, PR01889, PR01890, PR01891, PR01895, PR04351, PR04357, PR04405, PR04356, PR04352, PR04380, PR04354, PR04408, PR05737, PR04425, PR05990, PR06030, PR04424, PR04422, PR044210 and PR04429, PR01889 polypeptide is useful for diagnosing tumour in a mammal. The polypeptides, their agonists and antagonists are useful treating a condition associated with expression or activity of the polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Secreted protein; transmembrane protein; PRO1484; PRO4334; PRO1122; PRO1889; PRO1889; PRO1887; PRO4185; PRO4353; PRO4357; PRO4405; PRO590; PRO4352; PRO4380; PRO4354; PRO4408; PRO5737; PRO4425; PRO5990; PRO619R04424; PRO4420; PRO4430; PRO4499; tumour; obesity; diabetes; insulinemia; kidney disorder; Bergers disease; nephropathy; Schonlein-Henoch purpura; celiac disease; dermatitis herpetiformis;
                                                                                                                                                                                                                                Desnoyers L
Stewart TA,
                                                                                                                                                                                                                                                                                                                                                                                04-MAY-1999;
04-MAY-1999;
                                                                                                                                                                                                                                                                                                                                                                                                           27-APR-1999;
27-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           24-MAR-1999;
31-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    23-MAR-1999;
23-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAA96313 standard; DNA;
                                                                                                                        Example 9; Page 144; 222pp; English
                                                                                                                                                   and for therapeutic use
                                                                                                                                                              Novel secreted and transmembrane polypeptides useful for diagnosing tumor in a mammal, for identifying agonists and antagonists of the polypeptide
                                                                                                                                                                                                        WPI; 2000-628263/60.
                                                                                                                                                                                                                                                                                                                                                       25-MAY-1999
                                                                                                                                                                                                                                                                                                                                                                    04-MAY-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       28-SEP-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO200056889-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Crohns disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PCR primer for cDNA encoding novel polypeptide PRO1887.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      08-FEB-2001
                                                                                                                                                                                                                                                                       (GETH )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5143 TTGCTTTTTCAACATA 5158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          22 TIGCTTTTGCAACATA 7
                                                                                                                                                                                                                                                                         GENENTECH INC.
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                                                                                                                                                                                                                                Eaton DI
Watanabe
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                                                                                                                                                                                                                                                                                                99US-0144791P.
99US-0146970P.
99US-0170262P.
                                                                                                                                                                                                                                                                                                                                                                  99US-0132371P.
99US-0132379P.
99US-0132383P.
                                                                                                                                                                                                                                                                                                                                         99US-0135750P
99US-0138166P
                                                                                                                                                                                                                                                                                                                                                                                                          99US-0131272P.
99US-0131291P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   99US-0125774P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  99US-0130359P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PCR primer; ss.
                                                                                                                                                                                                                        n DL,
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                                                                                                                                                                                                                                Goddard A,
Wood WI,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           쁑
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pred. No. 1.3e+03;
0; Mismatches 1
                                                                                                                                                                                                                                Godowski
Zhang Z;
                                                                                                                                                                                                                                             ΡJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                              Gurney AL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRO4356;
                                                                                                                                                                                                                                              Pan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
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RESULT 2216
ADK68394/c
ID ADK6839
XX ADK6839
XX N1Ckel-
XX Nickel-
XX Strepto
XX WPI; 2C
XX Pr Process
XX Example
XX Strepto
CC The in
CC Strepto
CC Strep
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local S
Matches 15
                                                                                                           Query Match
Best Local Similarity
Matches 15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conditions treated include obesity, diabetes or hyper-or hypo-
insulinemia. The polypeptides are capable of inducing proliferation of
mammalian kidney mesangial cells and are therefore useful for treating
kidney disorders associated with decreased mesangial cell function such
as Bergers disease or other nephropathies associated with Schonlein-
Henoch purpura, celiac disease, dermatitis herpetiformis or Crohns
disease. The nucleic acids may be used to generate transgenic animals for
use in development and screening of therapeutically useful reagents and
also for chromosome identification and tissue typing
                                                                                                                                                                                                                                                                                                      The invention relates to a method for preparing Ni-containing superoxide dismutase (NiSOD) from Streptomyces coelicotor. Streptomyces lividans. The invention also discloses a method for producing a strain of streptomyces lividans in which the gene encoding NiSOD (sodN) is deleted. Sequences ADK68393-ADK68394 represent FCR primers used to amplify a
                                                                                                                                                                                                                            Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2000-547509/50.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                30-JAN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Streptomyces
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Superoxide dismutase; nickel-containing; NiSOD; sodN; orfX; preparation; Streptomyces coelicolor; Streptomyces lividans; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           06-MAY-2004
                                                                                                                                                                                                                                                                              Streptomyces sodN gene in an example of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 3; Page 5; 9pp; Korean.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Kim EJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           30-JAN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         16-AUG-1999.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              KR99066550-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Nickel-containing superoxide dismutase (NiSOD)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADK68394;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADK68394 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (/YHAH)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5090 AGCTCTGCTTCCTTGG 5105
                                                     421
21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ហ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HAH Y C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              for preparing Ni-containing superoxide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Chung
GGCAGGTCGCAGTGGA
                                                  GGCAGGTTGCAGTGGA 436
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AGCTCTGCCTCCTTGG 20
                                                                                                                                                                                                                            BP; 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BP; 3 A; 9 C; 5 G; 5 T; 0 U; 0 Other;
                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
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                                                                                                                                                                                                                            A; 11 C; 5 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Noh
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        entry)
                                                                                                                                     0.3%;
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                                                                                                           0
                                                                                                                                  Score 14.4; DB 1;
Pred. No. 1.3e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 14.4; . DB 1;
Pred. No. 1.3e+03;
                                                                                                              Mismatches
                                                                                                                                                                                                                            3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              dismutase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PCR primer NS2
                                                                                                                                                                Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 22;
                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                   22;
                                                                                                           0
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                                                                                                           Gaps
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AAH75583
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AAH75568
                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity
Matches 15; Conserv
                                                                                                                                                                                                                                                                                                                                                                The invention relates to control of telomere length in a cell by modifying the physiological activity of the Mrell protein in the cell, by transformation of the cell with DNA encoding a foreign Mrell protein which may be modified in the C-terminal and/or nuclease domain. The method is useful in gene therapy of telomere length-related diseases such as melanoma, liver cancer, breast cancer, bladder cancer and brain cancer. The present sequence is that of a Mrell related PCR primer of the
                                                                   Yeast; Mrell;
liver cancer;
                                                                                                       Mrell related
                                                                                                                              06-NOV-2001
                                                                                                                                                     AAH75583;
                                                                                                                                                                           AAH75583 standard;
                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure; Page 8; 67pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Controlling telomere length for gene therapy of telomere length related tumors comprises transformation using the modified Mrell protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2001-541649/60.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ohta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (RIKE )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Yeast; Mrell;
liver cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mrell related
                      WO200160996-A1
                                             Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         18-FEB-2000; 2000JP-00041929
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                14-FEB-2001; 2001WO-JP001024.
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                                                                                                                                                                                                                                                                                                                                                          invention
                                                                                                                                                                                                                                                            2496
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 <u>7</u>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JAPAN SCI & TECHNOLOGY CORP.
                                                                                                                                                                                                                                                                                                                                  22
                                                                                                                                                                                                                                       GGGATCAAGTACAACT 16
                                                                                                                                                                                                                                                             GGGATGAAGTACAACT 2511
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Shibata
                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                  BP; 7 A; 4 C; 4 G; 7 T; 0 U; 0 Other;
                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                 telomere length; nuclease; gene there breast cancer; bladder cancer; brain
                                                                                                       PCR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           telomere length; nuclease; gene therapy; melanoma; ss; breast cancer; bladder cancer; brain cancer; PCR prime
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ВG
                                                                                                     primer 5.
                                                                                                                                                                           DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA;
                                                                                                                                                                                                                                                                                             93.8%;
                                                                                                                                                                            22
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ВP
                                                                                                                                                                                                                                                                                    0;
                                                                                                                                                                                                                                                                                               Score 14.4;
Pred. No. 1.
                                                                                                                                                                                                                                                                                      Mismatches
                                                                     gene therapy; melanoma;
cer; brain cancer; PCR p;
                                                                                                                                                                                                                                                                                                .3e+03
                                                                                                                                                                                                                                                                                                          DB 1;
                                                                                                                                                                                                                                                                                                           Length
                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PCR primer.
                                                                                                                                                                                                                                                                                    0
                                                                     primer
                                                                                                                                                                                                                                                                                    Gaps
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RESULT 2219
AAH37985

    Matches

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Best Local :
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                                                                                                                                                                                                                                                                                                                                Lesch-Nyhan syndrome; muscular dystrophy; familial hypercholesterolaemia; polycystic kidney disease; osteogenesis imperfecta; autoimmune disease; acute intermittent porphyria; rheumatoid ambritis; multiple sclerosis; inflammation; forensic investigation; paternity analysis; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                         Single nucleotide polymorphism; SNP; single nucleotide primer extension; SNPE; genotyping; agammaglobulinaemia; diabetes insipidus; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Controlling telomere length for gene therapy of telomere length related tumors comprises transformation using the modified Mrell protein.
Picoult-Newburg
                                                                                               15-OCT-1999;
                                                                                                                                         13-OCT-2000; 2000WO-US028436.
                                                                                                                                                                                                                                        WO200129262-A2
                                                                                                                                                                                                                                                                                    Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                       SNPE; genotyping;
Lesch-Nyhan syndro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SNP specific upper PCR primer SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      14-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAH37985 standard; DNA; 22 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            18-FEB-2000; 2000JP-00041929
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (RIKE)
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15; Conserv
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JAPAN SCI &
                                                ORCHID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GGGATGAAGTACAACT 2511
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      B₽;
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                                                BIOSCIENCES INC.
                                                                                               99US-0160096P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A.
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       Poh1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             93.8%;
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C;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 14.4; D
Pred. No. 1.3e
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     781.
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CC SNP Flanking sequence, the SNPE primer is used as a genotyping primer.

CT The oligonucleotides are useful for genotyping a nucleic acid sample by performing a single-nucleotide primer extension reaction. The coligonucleotides are useful for determining the presence, absence or clidentity of a SNP and for genotyping nucleic acid samples, for e.g. to cases by association analysis the genotype of an individual or group of clidatiduals, having a pathological phenotypic trait suspected of being caused by one or more SNPs. Phenotypic traits include diseases e.g. cagammaglobulinaemia, diabetes insipidus, Lesch-Nyhan syndrome, muscular cystrophy, familial hypercholesterolaemia, polycystic kidney disease, consteogenesis imperfecta and acute intermittent porphyria. Phenotypic traits also include symptoms of or susceptibility to multifactorial confidences, including, rheumatoid arthritis, multiple sclerosis, concer, nervous system diseases and infection by pathogenic microorganism. The method is also useful in forensic investigations and contention system diseases are primer specific secretics.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         primer extension (SNPB) primers, and the sequences of regions flanking sites of single nucleotide polymorphisms SNPB. The present invention includes kits for determining the presence or absence of a SNP, using oligonucleotides of the invention. The PCR primers are used to amplify
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequences AAH37205 - AAH40944 represent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New genotyping oligonucleotide, useful for detecting the presence, absence or identity of single polynucleotide polymorphism in a nuc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    acid sample.
                                                  for a human SNP
                                            containing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               83pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             English.
                                            DNA sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PCR primers, single nucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            in a nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              amplify
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           the
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Matches Query Match Sequence Local Similarity 22 BP; 8 Conservative A; 1 C; 10 G; 3 T; 0 U; 0.3%; 0 Score 14.4; Pred. Mismatches No. .3e+03; BB 0 Other; 1; Length Indels 22; 0; Gaps

0

RESULT 2220 AAL41885 standard; 22

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1877 GAGTGAGAAGGAGTGG

1892 20

03-MAY-2002 AAL41885; (first entry)

S. mutans iron-binding aerotolerant protein-related oligonucleotide dpr1 Iron-binding aerotolerant protein; milk appreciation primer; period extension;

Streptococcus mutans

JP2001327292-A

27-NOV-2001.

22-MAY-2000; 2000JP-00150553

22-MAY-2000; 2000JP-00150553.

(MEIP) MEIJI MILK PROD CO LTD

WPI; 2002-198955/26

An aerotolerant gene and a protein encoded by the

Example 1; Page 13; 16pp; Japanese.

The invention comprises the nucleotide and protein sequences 얁

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RESULT 2221
ABL45303/c
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                               The present invention describes a method of arraying genome clones. The cmethod comprises: (a) clones of the genomic libraries contained in cmethod comprises: (a) clones of the genomic libraries contained in cmultiwell plates numbered for discrimination are mixed in each of the cc multiwell plates; (b) a primer designed based on the chromosome marker (c) a signal corresponding to the marker is detected from the resultant camplified product to specify the discrimination Nos. of the multiwell confished product to specify the discrimination Nos. of the multiwell confished product to specify the discrimination Nos. of the multiwell confished product to specify the discrimination Nos. of the multiwell confished containing the clones having said marker sequence; (d) the order confished containing the clones having said marker sequence; (d) the order confished containing the clones in the multiwell plates of the specified confished confished discrimination Nos. to array the multiwell confished confished discrimination Nos. to array the multiwell confished from the detected clones are cultured and the confished product; (h) the clones in the multiwell constituted as the positions on the chromosome and arrayed. The microarray is useful for gene analysis. ABL42957 to ABL45322 represent por human chromosome 21q22.1, which are specified for human chromosome 21q22.1, which are specified for use in the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               밁
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Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Streptococcus mutans iron-binding aerotolerant protein. The invention also comprises a microbe which has been transformed with the gene encoding the iron-binding aerotolerant protein. The microbe of the invention is useful in the preparation of milks of long appreciation period. The present nucleotide sequence represents an S. mutans iron-binding aerotolerant protein-related oligonucleotide (dpr1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 4; Page 51; 528pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Arraying genome clones.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10-MAR-2000; 2000JP-00066716
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JP2001321190-A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; chromosome 1p36-35; chromosome 21q22.1; genetic analysis; genome;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human chromosome 1p36-35 PCR primer SEQ ID NO:2347.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ABL45303;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (GENO-) GENOTEX YG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (RIKA ) RIKAGAKU KENKYUSHO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3810 AAGAGCCAAGGGAAGC 3825
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
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Pred. No. 1.
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Sequence 22

BP; 5

A;

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G; 7 T; 0 U; 0 Other

UGT2B4), UDP-glucuronosyl transferase

transferase 284

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RESULT 2222
ABS98171
ID ABS98177
XX ABS9817
XX ABS9817
XX CASS9817
XX ABS9817
XX AUMANN Cytochr
XW Cytochr
XW Cytochr
XW Cytochr
XW Cytochr
XW Cytochr
XW MUltidh
XW Single
XX Contral
XW Single
XX WO2002!
XX Contral
XW Single
XX WO2002!
XX Contral
XW Single
XX Contral
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KW cytochrome P450 A2; CYP4501A2; cytochrome P450 O2E; CYP45002E1; LTF;
KW cytochrome P450 A2; CYP4501A2; cytochrome P450 O2E; CYP45002E1; LTF;
KW cytochrome P450 A2; CYP4501A2; cytochrome P450 O2E; CYP45002E1; LTF;
KW cytochrome P450 A2; CYP4501A2; aryl hydrocarbon; AHR; MRP3; NR112;
KW cytochrome P450 A2; diazepam binding inhibitor; DBI; haematological;
KW cytochrome P450 A2; cytochrome pinding inhibitor; DBI; haematological;
KW cytochrome P450 A2; cyt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity
Matches 15; Conserv
                                                                                                                        This invention relates to the sequence of an isolated nucleic acid molecule comprising at least one base variation from that of a known human cytochrome P450 A1 (CYP4501A1), cytochrome P450 A2 (CYP4501A2), cytochrome P450 02E1 (CYP45002E1), adrenergic receptor betal (ADBR1), aryl hydrocarbon (AHR), aryl hydrocarbon receptor nuclear translocator (ARNT), cathepsin S (CTSS), cyclooxgenase 2 (COX2), diazepam binding inhibitor (DBI), epoxide hydroxylase 2 (EBHX2), 5-lipoxygenase activating protein (FLAP), glutathione-S-transferase 12 (GST12), histamine-N-methyl transferase (HNNT), (kallikrein 2) KLK2, nicotinamide -N-methyl
                                            transferase (HNMT), (kallikrein 2) KLK2, nicotinamide -N-n
transferase (NNMT), NADPH quinone oxidoreductase 2 (NQO2),
sulfotransferase thermolabile (STM), UDP-glucuronosyl tran
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Isolated nucleic acid molecules having polymorphisms in known human gene.g. cytochrome p450 and cathepsin S useful as genetic linkage markers for locating, identifying and characterizing the genes responsible for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2002-698522/75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Guida M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 22; Page 145; 714pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       disorder-related traits.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WO200257410-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ABS98171 standard; DNA; 22
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1039 CAGAAGAGCATCTTAA 1054
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Hall J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                polymorphism.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.3%;
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Pred. No. 1.3e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
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RESULT 2223
ABL31897
ID ABL3189
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human;
probe;
The invention relates to probes for use in the detection and assay of particular species of human cytochrome P450. They consist of labelled
                                                                                Claim 8; Page 59; 70pp; Japanese
                                                                                                                                           Detection and specific label
                                                                                                                                                                                                                                    WPI; 2002-114354/15
                                                                                                                                                                                                                                                                                       Nishimura M,
                                                                                                                                                                                                                                                                                                                                                                                                        01-JUN-2000; 2000JP-00164214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                30-MAY-2001; 2001WO-JP004544
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         06-DEC-2001.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human CYP17 probe SEQ ID NO 88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        21-MAR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ABL31897;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ABL31897 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           polymorphic
                                                                                                                                                                                                                                                                                                                                               (SAKA)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cytochrome P450; clinical; drug development; pharmacological;
                                                                                                                                                                                                                                                                                                                                               OTSUKA PHARM FACTORY INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACACTTACAGAATTAT 22
                                                                                                                                           n and assay of particular species labelled probe sets for diagnosti
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP; 11 A; 4 C; 2 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DNA sequence of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                    Yaguchi H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0.3%;
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                                                                                                                                                                                                                                                                                       Naito S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0,
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Pred. No. 1.3e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                           c species of human cytochrome diagnostic and investigative
                                                                                                                                                                                                                                                                                          Hiraoka
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 1; Length 22
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                                                                                                                                           P450 using use.
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RESULT 2
ACD28811
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Best Local Sim
Matches 15;
14-MAY-1999
14-MAY-1999
14-MAY-1999
25-MAY-1999
26-JUN-1999
20-JUL-1999
20-AUG-1999
23-AUG-1999
25-AUG-1999
25-DEC-1999
22-DEC-1999
22-DEC-1999
22-DEC-1999
22-MAR-2000
22-MAR-2000
22-MAR-2000
                                                                                                                                             13-APR-1999;
21-APR-1999;
27-APR-1999;
27-APR-1999;
27-APR-1999;
04-MAY-1999;
04-MAY-1999;
                                                                                                                                                                                                                                                                                   23-DEC-1998;
23-DEC-1998;
23-DEC-1998;
23-DEC-1998;
23-DEC-1999;
                                                                                                                                                                                                                                                                                                                                       15-MAY-1998;
15-DEC-1998;
22-DEC-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    oligonucleotides which hybridize to sections of each P450 species which are distinctive to that species. The inventors disclose PCR primers (ABL31810-ABL31844) and probes (ABL31845-ABL31914) for diagnostic and investigative use in the clinical, drug development and pharmacological
                                                                                                                                                                                                                       31-MAR-1999;
05-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACD28811 standard; DNA; 22 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 22
                                                                                                                                                                                                                                            23-MAR-1999;
24-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                        06-FEB-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; ss;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human secreted / transmembrane polypeptide PRO1887 forward primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         27-AUG-2003
                                                                                                                                                                                                                                                                 22-JAN-1999;
23-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                   16-AUG-2001; 2001US-00931836
                                                                                                                                                                                                                                                                                                                                                                                                                            US2003027249-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AATGAGAAGGAGTGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              primer; gene therapy; diabetes; obesity; hypoinsulinaemia;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BP; 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
 2000WO-US005601
2000WO-US005841
2000WO-US014042
                                       99US-0125826P

99US-0127035P

99US-0127706P

99US-0129122P

99US-0131270P

99US-0131272P

99US-013127371P

99US-01312371P

99US-0132379P

99US-0132379P

99US-0132379P

99US-0132379P

99US-0131833P

99US-0131833P

99US-0131833P

99US-0131833P

99US-0131833P

99US-0131839P

99US-0131839P

99US-0131839P

99US-0148970P

99US-0148970P

99US-0148970P

99US-0148970P

99US-0162506P
                                                                                                                                                                                                                                                       -SD66
-SD66
-SD66
                                99WO-US030720
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98US-0113621P
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                                                                                                                                                                                                                                                                             -0116843P
                                                                                                                                                                                                                                                                                                 -0114140P
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Pred. No. 1.3e
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         No. 1.3e+03
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PO SS KW KW KW XXX
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ACA06085
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Best Local Similarity
Matches 15; Conserv
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23-AUG-2000;
24-AUG-2000;
24-AUG-2000;
20-DEC-2000;
20-DEC-2000;
20-DEC-2000;
20-DEC-2001;
10-MAY-2001;
10-MAY-2001;
01-UN-2001;
01-UN-2001;
29-UN-2001;
29-UN-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to a new isolated nucleic acid which encodes a PRO polypeptide. The methods and compositions of the present invention are useful for the diagnosis and treatment of disorders associated with the PRO polypeptides, such as diabetes, obesity and hypoinsulinaemia. The present sequence represents a human secreted and transmembrane PRO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New isolated, secreted and transmembrane PRO polypeptides and encoding nucleic acids, useful for the diagnosis and treatment of disorders sucl as diabetes, obesity and/or hypoinsulinemia.
09-JAN-2003
                                                                                                 Human; PRO polypeptide; secreted and transmembrane protein; cancer; non-insulin dependent diabetes mellitus; septic shock; stroke; rheumatoid arthritis; graft-versus-host disease; cardiac ischaemia; psoriasis; inflammatory bowel disease; asthma; antidiabetic; cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Desnoyers L
Stewart TA,
                    US2003008348-A1.
                                                                                                                                                                                   02-JUN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example
                                                                             vasotropic;
                                                                                       immunosuppressive; antirheumatic;
                                                                                                                                                           PCR primer
                                                                                                                                                                                                          ACA06085;
                                                                                                                                                                                                                                 ACA06085 standard;
                                                                                                                                                                                                                                                                                                                                                                                                        polypeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (GETH
                                                                                                                                                                                                                                                      2225
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                                           sapiens
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                                                                                                                                                                                                                                                                                                               AGCTCTGCTTCCTTGG
                                                                                                                                                                                                                                                                                        AGCTCTGCCTCCTTGG 20
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                                                                                                                                                            #7
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                                                                             antipsoriatic; antiinflammatory;
                                                                                                                                                                                                                                                                                                                                                                                 BP; 3 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; 2000WO-US015264
2000WU-US0233528
2000WO-US023328
2000WO-US023328
2000WO-US032678
2000WO-US034956
2001WO-US034956
2001WS-00816744
2001WS-00854200
2001WS-00854203
2001WS-00874503
2001WS-00874503
2001WS-00874503
2001WS-00874503
2001WS-00874503
                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                       PCR primer
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                                                                                                                                                                                   (first
                                                                                                                                                            for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      78; 196pp; English
                                                                                                                                                          cDNA encoding human PRO polypeptide.
                                                                                                                                                                                                                                 DNA;
                                                                                                                                                                                   entry)
                                                                                                                                                                                                                                                                                                                                              93.8%;
                                                                                                                                                                                                                                                                                                                                                                                 9 C;
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Wood WI,
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24-WAR 1999
The present invention relates to the isolation of novel human PRO polypeptides, and the polynucleotide sequences encoding them. The PRO polypeptides are secreted and transmembrane proteins. The PRO polypeptides and polynucleotides are useful in diagnosing or treating noting in the properties and polynucleotides are useful in diagnosing or treating noting. In the properties are sequences, septic shock, rheumatoid arthritis, graff-versus-host disease, stroke, cardiac ischaemia, psoriasis, inflammatory bowel disease or asthma. The PRO polynucleotide sequences may be used as hybridisation probes in chromosome and gene mapping, or in generating antisense RNA and DNA. They are also useful in preparing PRO polypeptides, in assays to identify other proteins or molecules involved in binding reaction, to generate transgenic animals or
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Stewart TA
                                                                                                                                                                                                                                                                                                                                                 New PRO polypeptides and nucleic acid molecules, useful for diagnosing treating diabetes mellitus, cancers, septic shock, inflammatory bowel disease or asthma, or in gene therapy, chromosome identification or
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; primer; ss; inflammatory disease; organ failure; atherosclerosis; cardiac injury; infertility; birth defect; premature aging; AIDS; cancer; differentiation disorder; cell adhesin disorder; skin disorder; PCR; neural receptor disorder; diabetic complication; tissue typing.
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DE Human;
XW Human;
XW natura
KW natura
KW parall
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PN WO2003
XX

Human 22-SEP-2003

cytochrome

P450 CYP2C9

PCR

primer CYP2C9*7R

(first entry)

Synthetic

Homo sapiens

WO2003048768-A2

Human; protein array; protein moiety; phenotype; drug discovery; naturally occurring variant; pharmacogenomic; diagnostic; PCR pr parallel analysis; tumour suppressor; p53; cytochrome P450; ss.

primer;

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23-AUG-2000;
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20-DEC-2000;
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20-DEC-2001;
                                                                                                                                                                                                                                            The invention relates to an isolated nucleic acid that encodes a PRO polypeptide. The nucleic acids and polypeptides are useful for treating inflammatory diseases, organ failure, atheroselerosis, cardiac injury, infertility, birth defects, premature aging, acquired immunodeficiency syndrome (AIDS), cancer, differentiation disorders, cell adhesin disorders, neural receptor disporders, skin disorders or diabetic complications. The nucleic acids are useful as hybridisation probes, in chromosome and gene mapping and in generating antisense RNA or DNA. The polypeptides are useful as pharmaceuticals, diagnostics, biosensors or bioreactors. Both are useful in tissue typing. The present sequence represents a PCR primer used to isolate a cDNA encoding a PRO polypeptide.
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cardiac
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; 2000WO-US014042.

; 2000WO-US015264.

; 2000WO-US0233522.

; 2000WO-US02332678.

; 2000WO-US032678.

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Pred. No. 1.3e+03;
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Zhang Z;
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23-DEC-1998;
23-DEC-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (2) screening a set of protein moleties for molecules that interact with one or more proteins; and (3) simultaneously determining the relative properties of members of a set of protein moleties. The protein array can be used for determining the phenotype of a naturally occurring variant of a DNA sequence of interest. The protein array is useful for drug discovery, pharmacogenomics and diagnostics. The protein array allows the parallel analysis of closely related proteins with a sensitivity that is at least comparable to existing methods, if not better, with small volumes of potentially expensive ligands, and in a quantitative, comparative functional analysis manner not previously possible. ACF06000 to ACF06056 and ABR81975 to ABR82026 represent sequences used in the exemplification of the present invention
                                                                                                                                                                                                                                         Secreted and transmembrane protein related primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New protein array, useful for determining the phenotype of a naturally occurring variant of a DNA sequence of interest, comprises a surface up which at least two protein moieties are deposited.
                                                                                                                                            US2003036114-A1
                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                        20-NOV-2003
                                                                                                                                                                                                                                                                                                                            ADA76549 standard; DNA; 22
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16-SEP-2002; 2002US-0410815P.
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                                                                                      26-DEC-2001;
                                                                                                                 20-FEB-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention describes a protein array comprising a surface upon which at least two protein moieties are deposited at spatially defined locations, where the protein moieties are naturally occurring variants of a DNA sequence of interest. Also described: (1) making a protein array,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Boutell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           05-DEC-2002; 2002WO-GB005499
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15; Conserv
                                                                                                                                                                                                secreted and transmembrane protein; PRO; tumour;
typing; chromosome identification; cytostatic; PC
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                                                                                                                                                                                                                                                                                                                                                                                                 CCTGGAGCACGTGGTG 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BP; 4 A; 9 C; 4 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
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98US-0113430P.
98US-0113605P.
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primer; ss.
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Desnoyers L, Stewart TA, Watanabe Eaton n DL, Goddard A, (, Wood WI, Godowski PJ, Zhang Z; Gurney Pan

2003-615764/58.

Novel isolated secreted and transmembrane polypeptides, designated as polypeptides e.g. PRO1484, PRO4334 and PRO1122, useful for inhibiting tumor cell growth, and for preparing medicaments for therapeutic use. PRO

Example 9; Page 85; 201pp; English.

The invention describes an isolated secreted and transmembrane PRO CC polypeptide (I), having at least 80% identity to or scoring at least 80% compositives when compared to, a sequence (S1) comprising 246, 440, 197, 97, CC 273, S71, 209, 888, 502, 310, 251, 800, 507, 248, 223, 134, 136, 468, CC specification. An anti-(I)-antibody is useful for determining the CC specification. An anti-(I)-antibody is useful for identifying a compound CC capable of inhibiting the expression and/or activity of (I). (I) and the CC capable of inhibiting the expression and/or activity of (I). (I) and the CC capable of inhibiting the growth of tumour cells, and for CC the preparation of a medicament useful in the treatment of a condition CC which is responsive to (I) or the antibody. A polynucleotide (II) CC encoding (I) is also useful for isolating full-length PRO cDNA for CC generating transgenic animals or knock-out animals, which are, in turn, CC are useful in the development in the screening of therapeutically useful creagents, and in gene therapy. PRO is useful in assays to identify other CC proteins or molecules involved in binding interactions and for screening chemical conditions or agonists of binding interactions and for screening chemical conditions or agonists of binding interactions and for screening chemical conditions or screening chemical conditions or agonists of binding interactions and for screening chemical conditions or screening tissue typing and for chromosome identification.

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RESULT 2229
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septic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 22 BP; 3 A;
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23-DEC-1998;
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23-DEC-1998;
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99US-0144791P
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99US-016230790
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99US-0116843P.
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98US-0114140P.
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Pred. No. 1.3e+03;
0; Mismatches 1
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8XU

AAD59336;

AAD59336 RESULT 2230

AAD59336 standard; DNA; 22

ВÞ

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Matches Query Match Best Local 9

15;

Conservative

0

Similarity

0.3%;

Score 14.4; DB 1 Pred. No. 1.3e+03 Mismatches

DB 1;

Length 22; Indels

<u>,</u>

Gaps

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5090 AGCTCTGCTTCCTTGG 5105

Sequence 22

BP; 3 A; 9 C; 5 G; 5 T; 0 U; 0 Other;

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The invention relates to an isolated, secreted and transmembrane complyapetide, termed PRD polypeptide, PRO having at least 80 % sequence complete the specification of the 23 100-900 residue maino acid sequences, given complete the specification of the 23 100-900 residue and composited under any one of the ATC accession numbers given in the specification. Also included are an isolated nucleic acid molecule having care the sequence of the ATC accession numbers given in the specification (or a nucleotide sequence of 23 400-3500 nucleotide sequence encoding PRO, a chilary to a nucleotide sequence encoding PRO, a chilary sequence of 23 400-3500 nucleotide sequence encoding PRO, a chilary and peptide, a sequence encoding PRO, a chilary and provide, a sequence encoding PRO, a chilary and provide and an anti-PRO antibody. PRO is useful for identifying CC antigonists of anti-provide anti-provide as the rapeutic agent. PRO is anti-gonists or anti-provide anti-provide as the rapeutic agent. PRO is expressing those markers. PRO is also useful for recombinantly expressing those markers. PRO is also useful for recombinantly capital subject the artificial in assays to identify molecules or proteins which bind to PRO and CC unitiality in this bitors of PRO. PRO nucleic acid is useful for knockout animals which in turn are useful in the development and screening of CC manimals which in turn are useful. In the development and screening of identification, as Schromosome marker, and for the generic analysis of conditional swith genetic disorders, in gene therapy, for chromosome for PCR, and for treating septic shock, PRO or the antibody is useful for the provide shock provide and provide and provide are the provide and provide 
01-DEC-2000; 2000WO-US032678.
20-DEC-2000; 2000WO-US034956.
28-PEB-2001; 2001WO-US006520.
01-JUN-2001; 2001WO-US017800.
20-JUN-2001; 2001WO-US019692.
29-JUN-2001; 2001WO-US021066.
09-JUL-2001; 2001WO-US021735.
16-AUG-2001; 2001US-00931836.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Novel secreted and transmembrane polypeptide for identifying agonists antagonists of polypeptide, and as molecular weight markers.
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Zhang Z;
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Stewart TA,
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Watanabe
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a CK,
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Wood WI,
                                                                                                                                                                                                                                            Godowski
Zhang Z;
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The invention relates to an isolated nucleic acid that encodes a PRO polypeptide. The methods and compositions of the present invention are useful for the diagnosis, prevention and/or treatment of inflammation, nephropathies, bone and cartilage disorders, such as arthritis and disorders that affect glucose or free fatty acid (FFA) uptake, such as diabetes, hypoinsulinaemia or hyperinsulinaemia. The PRO polypeptides are also useful as molecular weight markers or for chromosome identification. The PRO genes are useful as hybridiastion probes or for screening libraries of human cDNA, genomic DNA or mRNA. The PRO genes may also be used in gene therapy and antisense therapy. The present sequence is a PCR primer used in the isolation of human PRO cDNA
                                                                                                                                                                                                                                     Sequence 22 BP; 3 A; 9 C; 5 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 9; Page
                                 5090 AGCTCTGCTTCCTTGG 5105
                                                                                                                ch 0.3%;
l Similarity 93.8%;
15; Conservative
AGCTCTGCCTCCTTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  85; 203pp; English.
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Human; diagnosis; inflammation; nephropathy; bone disorder; arthritis; cartilage disorder; hypoinsulinaemia; hyperinsulinaemia; gene therapy; antisense therapy; diabetes; PRO; PCR; primer; ss. Forward PCR AAD59211 standard; 18-DEC-2003 primer used to (first entry) DNA; 22 isolate human PRO1887 cDNA.

US2003049734-A1. Homo sapiens 13-MAR-2003 2001US-00036150

15-MAY 1998 15-DEC 1998 22-DEC 1998 23-DEC 1998 23-DEC 1998 23-DEC 1998 23-DEC 1999 23-MAR 1999 23-MAR 1999 23-MAR 1999 24-MAR 1999 24-MAR 1999 21-APR 1999 99US-0131272P 99US-0131291P 99US-0132371P 99US-0132379P 99US-0132383P 99US-0132383P 99WO-US010733 99US-0138750P 99US-0138166P 99US-0144791P 98US-0113300P 98US-011363P 98US-0113621P 98US-0113621P 98US-011552P 99US-0115542P 99US-0116843P 99US-0125774P 99US-0125774P 99US-0125778P 99US-0125778P 99US-0125778P 99US-0127035P 99US-0130359P 99US-0130359P S086 S086 S086

New isolated, sacids, useful f

secreted and transmembrane PRO polypeptides and nucleic for diagnosing, preventing and/or treating inflammation, bone and cartilage disorders, and diabetes.

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RESULT 2:
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Best Local (
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29-OCT-1999;
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22-MAR-2000;
02-MAR-2000;
02-MAR-2000;
02-MAR-2000;
02-JUN-2000;
23-AUG-2000;
24-AUG-2000;
24-AUG-2000;
26-EBB-2001;
01-JUN-2001;
29-JUN-2001;
16-AUG-2001;
pancreatic beta cell differentiation; mesangial cell prolifer; tissue typing; chromosome identification; gene therapy; thromosome mapping; gene mapping; sports injury; arthritis; diobesity; hyper-insulinaemia; hypor-insulinaemia; thalassaemia; Berger disease; Schonlein-Henoch purpura; celiac disease; dermatitis herpetiformis; Crohn's disease; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                              The present invention relates to novel polypeptides and nucleic acids encoding them. The methods and compositions of the present invention ar useful for the diagnosis, prevention and/or treatment of inflammation, nephropathies, bone and cartilage disorders such as arthritis and disorders that affect glucose or free fatty acid (FFA) uptake such as diabetes, hypoinsulinaemia and hyperinsulinaemia. The PRO peptides are useful as molecular weight markers and for chromosome identification. The PRO genes may also be used in gene therapy and antisense therapy. The present sequence is a PCR primer used to isolate human PRO cDNA
                                                          human; secreted and transmembrane protein; PRO; vulnerary; antiarthritic; antidheetic; anorectic; antianaemic; dermatological; antiinflammatory; antiallergic; immunosuppressive; gastrointestinal; chondrocyte cell differentiation; glucose uptake stimulator;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Desnoyers L,
Stewart TA,
                                                                                                                               18-DEC-2003
                                                                                                                                                                   ADC29780 standard;
                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                Example 9;
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15; Conserv
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99US-0162506P
99WO-US028551
99WO-US030720
2000WO-US005861
2000WO-US005841
2000WO-US015264
2000WO-US015264
2000WO-US023522
2000WO-US02352
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2000WO-US02352
2001WO-US0352678
2001WO-US06520
2001WO-US006520
2001WO-US017800
2001WO-US017800
2001WO-US017800
2001WO-US021735
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                                                                                                                               (first
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for diagnosing, preventing and/or t
, bone and cartilage disorders, and
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Α,
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                                                                                                         transmembrane protein related primer seq
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C;
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, Wood WI,
                                                                                                                                                                                                                                                                                              5 G;
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                                                                                                                                                                    ВP
                                                                                                                                                                                                                                                                                                                                                                                                               English.
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                                                                                                                                                                                                                                                                  Score 14.4; DB 1;
Pred. No. 1.3e+03;
                                                                                                                                                                                                                                                                                              5 T; 0 U; 0 Other;
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Zhang Z;
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                                                                                                                                                                                                                                                                                                                                                                                                                                   diabetes.
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                                                   proliferation;
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                                                                                                                                                                                                                                                                                                                                                                                   invention are
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                                diabetes,
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21 - AUG - 2000

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21 - AUG - 2000

22 - AUG - 2000

23 - AUG - 2000

24 - AUG - 2000

26 - EEB - 2001

27 - AUG - 2001
The invention describes an isolated secreted and transmembrane PRO polypeptide (I) having at least 80% amino acid sequence identity to fully defined sequences of 246, 440, 197, 97, 273, 571, 209, 888, 502, 310, 251, 800, 507, 248, 223, 134, 136, 468, 322, 221, 194, 125 or 339 amino acids as given in the specification. (I) is useful for tissue typing, as molecular weight markers or as therapeutic agents. A polynucleotide (II)
                                                                                                                                                                                                                                                                                                                                               Novel isolated PRO PRO1889, PRO1890, PR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens.
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2000WO-US023328.
2000WO-US032678.
2000WO-US034956.
2001WO-US006520.
2001WO-US017800.
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2001WO-US021735.
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                                                                                                                                                                                                                                                                                                                                                  thalassemia,
                                                                                                                                                                                                                                                                            English.
                                                                                                                                                                                                                                                                                                                                                  las PRO1484, PRO4334, useful for treating a jemia, Crohn's disease.
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Zhang Z;
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RESULT 2233
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12-JAN-1999

22-JAN-1999

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21-APR-1999

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; secreted and transmembrane protein; bone disorder; obesity; cartilage disorder; sports injury; arthritis; diabetes mellitus; hypo-insulinaemia; obesity; hyper-insulinaemia; thalassaemia; haemoglobin-associated disorder; kidney disorder; Berger disease; mesangial cell function; nephropathy; Schonlein-Henoch purpura; cellac disease; dermatitis herpetiformis; Crohn's disease; anorectic; antiarthritic; antidiabetic; antianaemic; nephrotropic; antiinflammatory;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          encoding (I) is useful for chromosome identification, gene therapy, tissue typing or as hybridisation probes in chromosome and gene mapping. PRO1484, PRO1890, PRO1887, PRO4357, PRO4405, PRO5737 and PRO5990 is useful for treating sports injuries and arthritis. PRO1484, PRO1112, PRO1889, PRO4357, PRO4380 and PRO4356 are useful for treating diabetes. PRO4334, PRO4427, PRO4390, PRO1890, PRO1785 and PRO4422 are useful for treating obesity, diabetes or hyper- or hypo-insulinaemia. PRO4352, PRO4354, PRO4408, PRO6030 and PRO4499 are useful for treating thalassaemia. PRO4354, PRO4408, PRO6030 and PRO4499 are useful for treating disease, Schonlein-Henoch purpura, celiac disease, dermatitis herpetiformis or Crohn's disease. This sequence represents a novel human secreted and transmembrane PRO polypeptide associated primer.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0.3%;
ilarity 93.8%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
98US-0085579P
98US-0113430P
98US-011340P
98US-0113605P
98US-0113621P
98US-0115552P
99US-0125774P
99US-0125774P
99US-0125774P
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99US-0125774P
99US-0125774P
99US-01277035P
99US-01277035P
99US-013127P
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99US-013127P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          for cDNA encoding human PRO polypeptide.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 14.4; DB 1;
Pred. No. 1.3e+03;
0; Mismatches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 1; Length 22;
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                                                                                                                                                                                                                                                           The present invention relates to the isolation of novel human PRO CC polypeptides, and the polynucleotide sequences encoding them. The PRO CC polypeptides are secreted and transmembrane proteins. The PRO CC polypeptides and polynucleotides are useful in diagnosing or treating CC various bone and/or cartilage disorders (e.g. sports injuries, CC hypo-insulinaemia), obesity, hyper-insulinaemia, haemoglobin-associated with CC disorders (e.g. thalassaemias), kidney disorders associated with CC decreased mesangial cell function (e.g. Berger disease), or other nephropathies associated with Schonlein-Henoch purpura, cellac disease, CC dermatitis herpetiformis or Crohn's disease. The PRO polynucleotide cC mapping, or in generating antisense RNA and DNA. They are also useful in CC preparing PRO polypeptides, in assays to identify other proteins or CC molecules involved in binding reaction, to generate transgenic animals or CC molecules involved in binding reaction, to generate transgenic animals or CC identification, and tissue typing. The PRO polypeptides and mucleic acid CC molecules are also useful in gene therapy, and as molecular weight consecuted in diagnostic assays for PRO polypeptides, or for the affinity purification of the polypeptides from recombinant cell culture or natural courses. The present sequence represents a PCR primer used in the cc examples of the porsent sequence represents a PCR primer used in the
                                                                                              Query Match
Best Local S
Matches 15
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25-MAY-1999

08-UUN-1999

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20-UUL-1999

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22-DEC-1999

22-DEC-1999

22-DEC-1999

01-MAR-2000

02-MAR-2000

02-MAR-2000

02-MAY-2000

03-MG-2000

04-MG-2000

01-DEC-2000

01-DEC-
                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Novel isolated PRO polypeptides e.g., PRO4334, PRO1122, PRO1889, PRO1890, PRO1887, PRO1785, PRO4353, useful for treating sports injuries, arthritis, diabetes, obesity, hyper- or hypo-insulinemia.
                                                                                                                                                                                                                                                      examples
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 9; Page 78; 194pp; English.
                                               5090
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                                                                                                                           Similarity
                                               AGCTCTGCTTCCTTGG 5105
                                                                                                                                                                                                    22 BP;
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99US-0135760P
99US-0138166P
99US-0138166P
99US-0146970P
99US-0162506P
99WO-US028551
99WO-US005601
2000WO-US005601
2000WO-US005641
2000WO-US015264
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2000WO-US015264
2000WO-US015264
2000WO-US015264
2000WO-US015266
2001WO-US032678
2001WO-US032678
2001WO-US01780
                                                                                                Conservative
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                                                                                                                                                                                                    3 A;
                                                                                                                                                                                                                                                      present
                                                                                                                   0.3%;
                                                                                                                                                                                                 9 C; 5 G; 5 T; 0
                                                                                                                                                                                                                                                      invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Goddard A,
, Wood WI,
20
                                                                                                0
                                                                                              Pred. No. 1.30
); Mismatches
                                                                                                                                                Score 14.4; DB 1; Length 22;
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Zhang Z;
                                                                                                                                                                                                 U; 0 Other;
                                                                                                                           1.3e+03
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RESULT 2234

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02-DEC-1999

22-DEC-1999

01-MAR-2000

02-MAR-2000

02-MAY-2000

02-UN-2000

03-AUG-2000

04-AUG-2000

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01-DEC-2000

01-DEC-2000

20-DEC-2000

20-DEC-2000
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20-JUL-1999;
03-AUG-1999;
29-OCT-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   primer;
                       Desnoyers L,
Stewart TA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Secreted and transmembrane
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADF09223;
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                                                 GENENTECH INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            chromosome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     standard; DNA;
                                                                               2000WO-US005601

2000WO-US015841

2000WO-US014042

2000WO-US015264

2000WO-US023522

2000WO-US033278

2000WO-US032678

2000WO-US032678

2000WO-US032678

2001WO-US017800

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                         Watanabe
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                                                                 2001WO-US021735
2001US-00931836
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                                                                                                                                                                                                  99US-0132371P.
99US-0132379P.
99US-0132383P.
99WO-US010733.
99US-0135750P.
99US-01366P.
99US-0146970P.
99US-0146970P.
99US-0146970P.
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99US-0130359P.
99US-0131270P.
99US-0131272P.
99US-0131291P.
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98US-0113300P

98US-0113400P

98US-0113605P

98US-0113621P

98US-0114140P

99US-0116843P

99US-0125774P

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99US-0125774P
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99WO-US030720.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   therapy; human;
                   A DL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          mapping; gene mapping; therapeutic reagent; PCR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22
                         Goddard Wood W
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  protein PRO1887
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ВP
                       WI,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    secreted
                      Godowski
Zhang Z;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    and transmembrane; PRO; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  primer
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                                Gurney
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RESULT 2235
ADL18651/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                          protein array; protein moiety; drug metabolising enzyme; DME;
drug metabolism; drug toxicity; cytotoxicity; drug metabolite;
metabolic pathway; human; cytochrome; enzyme; P450; polymorphic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              polynucleotide is useful in molecular biology, including uses as hybridisation probes, in chromosome and gene mapping, in generating antisense RNA and DNA, and in gene therapy. The polynucleotide may also be used in preparing PRO polypeptides by recombinant techniques, and in generating either transgenic animals or knock-out animals which, in turn are useful in the development and screening of therapeutically useful reagents. This sequence represents a primer used to isolate DNA encoding a novel human secreted and transmembrane PRO proteins.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Twenty three nucleic acids encoding PRO polypeptides, useful .chromosome and gene mapping, in generating antisense RNA and gene therapy.
                                                                                 New protein array comprising a surface having spatially defined locations containing drug metabolizing enzymes, examining gender and ethnicity-related differences in drug metabolism or cytotoxicity of drug
                                                                                                                                                                                                             16-SEP-2002; 2002US-0410815P.
05-DEC-2002; 2002US-00313963.
05-DEC-2002; 2002WO-GB005499.
                                                                                                                                      WPI; 2004-270121/25.
                                                                                                                                                              Boutell JM,
                                                                                                                                                                                                                                                                 16-SEP-2003; 2003WO-IB005258
                                                                                                                                                                                                                                                                                          25-MAR-2004.
                                                                                                                                                                                                                                                                                                                                            Synthetic
                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                               PCR; primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                              Human cytochrome P450 enzyme
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention describes 23 nucleic acids encoding human secreted transmembrane PRO polypeptides. The PRO polypeptides and nucleic are useful for the therapeutic treatment of cancerous tumours. The treatment of cancerous tumours.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example
                                                                                                                                                                                       (SENS-)
                                                                                                                                                                                                                                                                                                                   WO2004025244-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        17-JUN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADL18651;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADL18651 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5090 AGCTCTGCTTCCTTGG
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15; Conservat
                                                                                                                                                                                       SENSE PROTEOMIC LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGCTCTGCCTCCTTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BP; 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                              Godber BLJ,
                                                                                                                                                                                                                                                                                                                                                                                 88.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9 C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     261pp;
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                                                                                                                                                              Hart
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         G; 5 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 14.4;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                              209
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                              polymorphic variant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0 U; .0 Other;
                                                                                                                                                               Bockett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     .3e+03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 1;
                                                                                                                                                             NA,
                                                                                                                                                               Kozlowski
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length
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                                                                                                                                                                                                                                                                                                                                                                                            variant;
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and in
in turn,
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acids
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                                                                                                                                                                                                                                                                                                                                                                                                                                              primer
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The present invention describes a protein array comprising a surface having spatially defined locations where at each location there are deposited at least two protein moieties capable of forming a complex.

Example 3;

Page

36;

72pp;

English

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RESULT 2236
ADO04210/c
ID ADO0421
XX ADO0421
XX ADO0421
XX Bifunct
XX Bifunct
XX Bifunct
XX W02004C
XX W02004C
XX W02004C
XX IJ-MAY-
PR 30-OCT-
PR 19-DEC-
PR 11-JUL-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     30-OCT-2002; 2002DK-00001652.

30-OCT-2002; 2002US-0422167P.

19-DEC-2002; 2002DK-00001955.

19-DEC-2002; 2002US-0434425P.

11-JUL-2003; 2003DK-00001064.

11-JUL-2003; 2003US-0486199P.
                                                                                                                                        Obtaining bifunctional complex with display molecule and coding part, where bifunctional complex with priming site for adding tag is reacted at reaction site with reactants and provided with tag identifying reactant
                                                                                                                                                                                                                                                                                                                 Freskgard P, France
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Bifunctional
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Oligonucleotide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      29-JUL-2004
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                                                                                                                                                                                                                                                                                                           н,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ccreerecacereere 2567
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CCTGGAGCACGTGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          complex; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                 Franch
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                L1-NH2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DNA;
                                                                                                                                                                                                                                                                                                                            A T
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9 C; 4 G; 5 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      93.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0.3%;
                                                                                                                                                                                                                                                                                                                                     Gouliaev
Jakobsen S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 14.4; DB 1;
Pred. No. 1.3e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                         SN,
                                                                                                                                                                                                                                                                                                                                  Lundorf MD,
lams C, Glad
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                     Felding
SS, Jen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     22
                                                                                                                                                                                                                                                                                                                                     ing J;
Jensen KB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0
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Example 14;

Page

177;

220pp;

English

present

invention relates to a method

(M1)

for obtaining

Query Match Best Local S Best Loc Matches

15;

Conservative

0

Mismatches

Indels

0

Gaps

0

Similarity

93.8%; 0.3%;

Score 14.4 Pred. No.

14.4;

DB 1;

Length

22;

1.3e+03

BP;

6 A;

8 C; 4 G; 4 T; 0 U; 0 Other;

priming

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RESULT 2237
AD004217/c
ID AD00421
XX AD00421
XX AD00421
XX Bifunct
XX Bifunct
XX Bifunct
XX Synthet
XX WO2004(
XX Synthet
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PR 19-DEC
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PR 19-DEC
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Best Local S
Matches 15
                                                     The present invention relates to a method (M1) for obtaining a bifunctional complex. (M1) comprises a display molecule part and a coding part, where a nascent bifunctional complex comprising a chemical reaction site and a priming site for enzymatic addition of a tag is reacted at the chemical reaction site with reactant(s), and provided with respective tag(s) identifying the reactant(s) at the priming site using one or more enzymes. The present sequence was used to illustrate the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     part, where a nascent bifunctional complex comprising a chemical react site and a priming site for enzymetic addition of a tag is reacted at chemical reaction site with respectant(s), and provided with respective tag(s) identifying the reactant(s) at the priming site using one or more enzymes. The present sequence was used to illustrate the invention.
                                                                                                                                                                                                                                                                                                                                      Obtaining bifunctional complex with display molecule and coding part, where bifunctional complex with priming site for adding tag is reacted reaction site with reactants and provided with tag identifying reactants.
  Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Freskgard P,
Olsen EK, H
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 22
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                                                                                                                                                                                                                                                              Example
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Bifunctional complex; ss;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PCR primer FPv2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     29-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADO04217;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (NUEV-)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           30-OCT-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1288 ACATGGTGTCCAAGCT 1303
                                                                                                                                                                                                                                                                                                                                                                                                                                               2004-376154/35.
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                                                                                                                                                                                                                                                              14; Page 181;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUEVOLUTION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACGTGGTGTCCAAGCT 2
                                                                                                                                                                                                                                                                                                                    site.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Holtmann
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; 2002US-0422167P.
; 2002DK-00001955.
; 2002US-0434425P.
; 2003DK-00001064.
; 2003US-0486199P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Franch T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AS
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                                                                                                                                                                                                                                                           220pp;
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Jakobsen SN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           22
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                                                                                                                                                                                                                                                              English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 14.4;
Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               primer.
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Sams C, Glad
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                                                                                                                                                                                                                                                                                                                                         dding tag is reacted identifying reactant
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SS, Jensen
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chemical
is reacte
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RESULT 2239
ADO55243
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                                                                                                                                   Matches
                                                                                                                                                    Query Match
Best Local
                                                                                                                                                                                                                          an individual. The methods are also useful in diagnosing and monitoring diseases that involve the immune system, e.g. rheumatoid archritis, lupus, inflammatory bowel diseases, multiple sclerosis, HIV/AIDS or viral, bacterial or fungal infection. The present sequence represents a primer for a 50 mer oligonucleotide marker for diagnosis and monitoring of allograft rejection and other disorders.
                                                                                                                                                                                                                                                                                                              rejection, e.g. cardiac or kidney transplant rejection, in an individual comprises detecting the expression level of one or more genes. The methods, system and kits are useful in diagnosing or monitoring transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic islet, lung, bone marrow or stem cell transplant rejection, in a renotransplant rejection or mechanical organ replacement rejection, in an individual. The method is also useful in assessing the immune status of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Diagnosing or monitoring transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic islet, lung, bone marrow or stem cell transplant rejection, in an individual, comprises detecting the expression level of
                                                                                                                                                                                             Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                24-APR-2002; 2002US-00131831.
20-DEC-2002; 2002US-00325899.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              transplant rejection; immune system; rheumatoid arthritis; lupus; inflammatory bowel disease; multiple sclerosis; HIV; AIDS; ss; primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADP10912 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention relates to diagnosing or monitoring transplant
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 58; SEQ ID NO 921; 1762pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2004-400724/37
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                                                                                                                                                   Local
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                                                                                                         567
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                                                                                                                                     15; Conserv
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                                                                                           CTTTCCAGGACAGGCA 582
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                                                                            CTTTCCAGTACAGGCA 18
                                                                                                                                                                                             BP; 4 A;
                                                                                                                                     Conservative
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                                                                                                                                                0.3%;
                                                                                                                                                                                             7 C; 4 G; 7 T; 0 U; 0 Other;
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                                                                                                                                     0,
                                                                                                                                                 Score 14.4; DB 1, Pred. No. 1.3e+03
                                                                                                                                     Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           #257
                                                                                                                                                               DB 1;
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                                                                                                                                                              Length 22;
                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Morris
                                                                                                                                     0,
                                                                                                                                     Gaps
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Sjogren's syndrome; pemphigus vulgaris; scleroderma; pernicious anaemia; systemic lupus crythematosus; ankylosing spondwlitis; autoimmune skin disease; Grave's disease; inflammatory disease; osteoarthritis; gout; pseudogout; hydroxyapatite deposition disease; asthma; bursitis; tendonitis; conjunctivitis; urethritis; cystitis; balanitis; dermatitis; spinal cord injury; peptic ulcer; hyperlipidaemia; coronary artery disease; migraine; neuroprotective; antirheumatic; antidiabetic; osteopathic; antigout; antiasthmatic; antidiabetic; osteopathic; antigout; antiasthmatic; antiinflammatory; ophthalmological; dermatological; vasotropic; antimigraine; vaccine; gene therapy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         self-molecule related disease; autoimmune disease; multiple scler rheumatoid arthritis; insulin-dependent diabetes mellitus; autoimmune uveitis; primary biliary cirrhosis, myasthenia gravis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Immune modulatory nucleic acid; IMS;
self-molecule related disease; autoin
                                                                                                                                                                                                                                                                                                                                                                                                                21-NOV-2002; 2002US-0428643P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 10-JUN-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADO55243;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WO2004047734-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /*tag= a
/note= "Core Pu-Pu-X-Y-Py-Py hexamer region"
11. .12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /*tag= b
/note= "GpG or non-GpG, non-CpG dinucleotide"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       nucleic acid (IMS)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         #18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    immune modulatory sequence; non CpG;
mmune disease; multiple sclerosis;
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Pharmaceutical compositions comprising an immune modulatory nucleic acid comprising a hexamer region, useful for treating an autoimmune disease, e.g. multiple sclerosis, rheumatoid arthritis or insulin dependent

Garren H,

Ho PP,

Steinman L;

(STRD)

(BAYH-)

BAYHILL THERAPEUTICS UNIV LELAND STANFORD

RAPEUTICS INC. STANFORD JUNIOR.

WPI; 2004-441065/41.

Example 10; Page 64; 98pp; English.

The invention relates to a pharmaceutical composition for treating a clisease associated with one or more self-molecules present non-physiologically in an individual (e.g., autoimmune diseases), comprising an immune modulatory nucleic acid (INS, immune modulatory sequence) comprising a hexamer region of the formula 5'-purine-pyrimidine-[X]-[Y]-pyrimidine-pyrimidine-iv, where X and Y are any naturally-occurring or synthetic nucleotides except cytosine-guanine, and a pharmaceutical carrier. The immune modulatory nucleic acid may also contain a polyg cregion linked 5' and/or 3' to the hexamer region. The invention also relates to a nucleic acid composition comprising a nucleic acid vector creates to a nucleic acid composition comprising a nucleic acid vector having at least one cytosine to non-cytosine substitution (preferably C to G) within a CpG motif, wherin the CpG motif is of the formula: (a) 5'-purine-pyrimidine-jyrimidine-jyrimidine-3'; or (b) 5'-purine-purine-CC -pyrimidine-pyrimidine-3'; or (b) 5'-purine-purine-CC -generally in the treatment of disease associated with one or more self-conceines present non-physiologically in an individual, such as contained acid care and a proper contained acid sequences and accounts of the purine-purine disease associated with one or more self-contained acid care and accounts of the contained acid sequences are useful in the treatment of disease associated with one or more self-contained acid care acid sequences. autoimmune diseases (e.g., multiple sclerosis, rheumatoid arthritis, insulin-dependent diabetes mellitus, autoimmune uveitis, primary biliary

ADO55243 standard; DNA; 22

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RESULT 2240
ADP90549
ID ADP9054
XX ADP9054
XX ADP9054
XX PCR pri
XX plant;
KW leaf an
XX Nicotia
XX Nicotia
XX JP20041
XX JP20041
XX PO 02-JUL-
XX IB-NOV-
XX IB-NOV-
XX WPI; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity
Matches 15; Conserv
Query Match
Best Local Similarity
Matches 15; Conserv
                                                                                                                                                                                                          This invention relates to a novel active oxygen stress-responsive promoter that effectively induces target gene expression during active oxygen stress under stringent conditions. Specifically, it refers to transforming a plant with a vector containing a promoter that is operably linked to a target gene, and furthermore controls target gene expression in the leaf base, leaf and stalk or root of the plant. The present invention describes inducing expression of one of the following tobacco genes namely NTPXC1, NTPXC2 or NTPXC3 during active oxygen stress conditions in a given transformed plant cell, such as Agrobacterium tumefaciens or Arabidopsis thallana. This oligonucleotide is a PCR primer used to isolate and amplify the tobacco NTPXC1 active oxygen stress-responsive promoter DNA of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  scleroderma, pernicious anaemia, systemic lupus erythematosus, ankylosing spondylitis, autoimmune skin diseases and Grave's disease); inflammatory diseases (e.g., osteoarthritis, gout, pseudogout, hydroxyapatite deposition disease, asthma, bursitis, tendonitis, conjunctivitis, urethritis, cystitis, balanitis and dermatitis); or other conditions such as spinal cord injury, peptic ulcer, hyperlipidaemia, coronary artery disease and migraine. The present sequence represents a specific example of an immune modulatory nucleic acid predicted to be useful for modulating autoimmune disease which is referred to in an example of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Novel active oxygen stress-responsive promoter, useful for regulating expression of target gene under active oxygen stress conditions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               02-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    JP2004180678-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              plant; tobacco; ss; active oxygen stress-responsive promoter; leaf base; leaf and stalk; root; NTPXC1; NTPXC2; NTPXC3; transgenic; PCR; primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2004-472339/45.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          18-NOV-2002; 2002JP-00333977
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   18-NOV-2003; 2003JP-00388162
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nicotiana tabacum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      23-SEP-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADP90549 standard; DNA; 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PCR primer to amplify tobacco NTPXC1 acitve oxygen stress promoter Seq10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (TOYT ) TOYOTA JIDOSHA KK.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4242 TGCCTGTGAGGCTTAG 4257
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TGACTGTGAGGCTTAG 16
                                                                                                                                                 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BP; 6 A; 2 C; 8 G; 6 T; 0 U; 0 Other;
                                                                                                                                                 B₽;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ID NO 10;
                                                                                                                                                 9
                                                                                                                                                 ð
                                  93.8%;
                                                                                                                                             6 C; 3 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       93.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     23pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ₽P
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   Score 14.4; D
Pred. No. 1.3e
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 14.4;
Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                  1.3e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1.3e+03;
                                                                        DB 1; Length 22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0
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Conservative

0,

Indels

0,

Gaps

0;

RESULT 2242 ADC45877/c ID ADC4587 XX AC ADC4587

ADC45877 standard;

DNA;

32

0

ADC45877;

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RESULT 2241
AAT03688/c
ID AAT0368
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밁
                                                                                                                                                              The oligonucleotides AAT03687-9 are examples of probes used in a novel DNA purification method designated triplex-affinity capture. The method comprises binding an oligonucleotide probe to a double-stranded target nucleic acid under conditions where a triple helix is formed. The probe is attached directly or indirectly to the one half of a specific binding pair e.g. biotin/avidin, antigen/antibody. The other half of the binding capair is attached to an immobiliaing agent e.g. a bead. After formation of the target-probe-binding pair-solid support complex, the target mol. can be recovered by separating the complex from the medium and separating the complex from the medium and separating the corpobe from the target nucleic acid. The method can be used to isolate very large specific intact double strand DNA from a heterogenous mix. This primer was used to assay for transformants separated by the method contains a 45 bp simple T-C repeat which is able to form a triple helix with a (T-C)-contg. probe e.g. AAT03689
                                                                Query Match
Best Local S
Matches 18
                                                                                                                                  Sequence 27 BP; 1 A; 14 C; 2 G; 10 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Probe; purification method; triplex-affinity capture; triple helix; specific binding pair; biotin; avidin; antigen; antibody; immobilisation; heterogenous mix; S.cerevisiae; primer; PCR; amplification; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Triplex-affinity DNA capture method BamTC primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                17-JUL-1996 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAT03688;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAT03688 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 1; Col 13; 20pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Smith CL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            14-JAN-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           14-JAN-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            09-JAN-1996.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US5482836-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      and sepn.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Isolating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 1996-076888/08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (REGC ) UNIV CALIFORNIA.
                                                                                Local Similarity
                    1593 GAAACAGAGAAGGAGAAGATCCTG 1616
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2318 CCAAAAATCAAGCAG 2333
                                                                  18;
25
 GAGAGAGAGAGAGAGGATCCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        particular double stranded DNA - by formation of a triple helix using a specific molecular recognition system and a solid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Cantor CR,
                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            93US-00004552
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             93US-00004552.
                                                                                0.3%;
75.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ito
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    27
                                                                0,
                                                                                 Score 14.4;
Pred. No. 1.
                                                                  Mismatches
                                                                                   1.6e+03
                                                                                                   DB 1;
                                                                                                   Length
                                                                  Indels
                                                                                                     27;
                                                                  <u>..</u>
                                                                Gaps
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RESULT 2243
ADC45887/c
ID ADC4588
XX AC ADC4588
XX AC ADC4588
XX TB-DEC-
                                                                                                                                                                                  Ś
                                                                                                                                                                                                                                                                                         吊
                                                                                                                                                                                                                                                                                                               The invention relates to an improved method (M) for preparing nucleic CC acid conjugates (C) with synthetic binding units by: (a) synthesizing (C) acid conjugates (C) with synthetic binding units by: (a) synthesizing (C) con a solid support phase using monomer or oligomer units, where the units; (C) is treating the support with a solution of an alkylamine in an inert solvent; (C) treating the support with hydrazine to cleave off and deprotect (C). The patent also claims a supermolecular construct (I) comprising at CC least one synthetic address unit (SAU) attached to a support material (C) comprising an array of discrete locations, where the same SAU is attached to at least two predetermined locations on the support material, and at CC least two conjugates comprising synthetic binding unit (SBU) and a concludic acid (NA), where at least two of the conjugates have the same SBU CC and different NAs, where the SBU of the conjugates have the same SBU coations. The method is useful for preparing nucleic acid conjugates with Synthetic binding units. The method also enables efficient and specific sorting of relatively complex mixtures of nucleic acids to predetermined CC sorting on a support. This sequence represents an oligonucleotide used in the method of the invention.
                                                                                                                                                                                                                   Query Match
Best Local Similarity
Matches 21; Conserv
   18-DEC-2003
                                  ADC45887;
                                                                  ADC45887
                                                                                                                                                                                                                                                                                       Sequence 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Preparing nucleic acid conjugates with synthetic binding units, by synthesizing conjugates on solid support using monomer/oligomer units, treating support with alkylamine solution, and treating support with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2003-300432/29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Schweitzer M, Anderson R, Fiech Raddatz S, Bruecher C, Windhab
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ss; nucleic acid conjugate; synthetic binding unit;
supermolecular construct; synthetic address unit;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          18-DEC-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    14-FEB-2002; 2002WO-EP001532
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO2003008638-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (NANO-) NANOGEN RECOGNOMICS GMBH.
                                                                                                                                                                                     4410
                                                                                                                                                    32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      acid-synthetic binding unit conjugate oligomer #152
                                                                    standard; DNA;
                                                                                                                                                                                  ATAGATAATAATATTAATAATAATAATGG 4441
                                                                                                                                                    ACATTTATTATTATTATTATTATTATTTG 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  binding system unit
                                                                                                                                                                                                                                                                                       BP;
                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQ ID NO 152;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
   (first entry)
                                                                                                                                                                                                                                                                                       20
                                                                                                                                                                                                                                                                                   A; 1 C; 1 G; 10 T; 0 U; 0 Other;
                                                                                                                                                                                                                                    0.3%;
                                                                    32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Fiechtner M, Mueller-Ibeler J; indhab N, Orwick J, Schneider E
                                                                    ВÞ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            232pp; English.
                                                                                                                                                                                                                     0
                                                                                                                                                                                                                                 Score 14.4; DB 1
Pred. No. 1.9e+03
                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                  DB 1;
                                                                                                                                                                                                                      11;
                                                                                                                                                                                                                                                    Length 32;
                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 m.
                                                                                                                                                                                                                   <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pignot
                                                                                                                                                                                                                   Gaps
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Nucleic acid-synthetic binding unit conjugate oligomer

18-DEC-2003

(first entry)

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RESULT 2244
ADC45857/c
ID ADC4585
XX
XX
AC ADC4585
XX
DT 18-DEC-
XX
DE Nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to an improved method (M) for preparing nucleic CC acid conjugates (C) with synthetic binding units by: (a) synthesizing (C) con a solid support phase using monomer or oligomer units, where the units (C) are beta-cyanoethyl-protected on at least one phosphorus of the units; (C) it treating support with a solution of an alkylamine in an inert solvent (C), and (C) treating the support with hydrazine to cleave off and deprotect (C). The patent also claims a supermolecular construct (I) comprising at CC least one synthetic address unit (SAU) attached to a support material (C) comprising an array of discrete locations, where the same SAU is attached to at least two predetermined locations on the support material, and at C least two conjugates comprising synthetic binding unit (SBU) and a culcic acid (NA) where at least two of the conjugates have the same SBU cand different NAs, where the SBU of the conjugates form a synthetic binding system unit (SBS) with the SAU at the two predetermined (C) locations, and immobilize each of the two different NAs at a different CC sorting of relatively complex mixtures of nucleic acid conjugates with synthetic binding units. The method also enables efficient and specific continuous of the support. This sequence represents an oligonucleotide used con the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 32 BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Preparing nucleic acid conjugates with synthetic binding units, by synthesizing conjugates on solid support using monomer/oligomer units, treating support with alkylamine solution, and treating support with
                                                                                                                      ADC45857;
                                                                                                                                                                             ADC45857 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure; SEQ ID NO 162; 232pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   hydrazine.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2003-300432/29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Kienle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Schweitzer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             14-FEB-2002; 2002WO-EP001532
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    synthetic binding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ss; nucleic acid conjugate; synthetic binding unit;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          30-JAN-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (NANO-) NANOGEN RECOGNOMICS GMBH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local
                                                                                                                                                                                                                                                                                                                                                                4410 ATAGATAATAATAATAATAATAATAATGG 4441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Bruecher
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Anderson R, Fiecl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20 A; 1 C; 1 G; 10 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 system unit.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.3%;
                                                                                                                                                                             DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               synthetic
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ndhab N, Orwick J, Schneider E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 14.4;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1.9e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 32;
                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
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ARC85339/c
ID AAC8533
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AC AAC8533
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DT 29-MAR-
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DE CDNA pr
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XW Human;
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                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to an improved method (M) for preparing nucleic CC acid conjugates (C) with synthetic binding units by: (a) synthesizing (C) con a solid support phase using monomer or oligomer units, where the units (CC are beta-cyanoethyl-protected on at least one phosphorus of the units; cC (b) treating support with a solution of an alkylamine in an inert solvent (C); and (c) treating the support with hydrazine to cleave off and deprotect (C). The patent also claims a supermolecular construct (I) comprising at (CC). The patent also claims a supermolecular construct (I) comprising at (CC) as the protect construct (I) comprising at (CC) are provided to a support material (CC) at least two predetermined locations on the support material, and at (CC) are provided to a conjugate comprising synthetic binding unit (SBU) and a (CC) and different NAs, where at least two of the conjugates have the same SBU (CC) and different NAs, where the SBU of the conjugates form a synthetic binding system unit (SBS) with the SAU at the two predetermined (CC) locations, and immobilize each of the two different NAs at a different (CC) sorting of relatively complex mixtures of nucleic acid conjugates with (CC) sorting of relatively complex mixtures of nucleic acids to predetermined (CC) locations on a support. This sequence represents an oligonucleotide used in the method of the invention.
                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local (
 Human; poly(ADP-ribose) polymerase; hPARP2; oxidative stress; ARDS;
                                    cDNA primer
                                                                                                                                                                                                                                                                                                                                                                                        Sequence 32 BP; 20 A; 1 C; 1 G; 10 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ss; nucleic acid conjugate; synthetic binding unit;
supermolecular construct; synthetic address unit;
synthetic binding system unit.
                                                                          29-MAR-2001
                                                                                                              AAC85339
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure; SEQ ID NO 132; 232pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Preparing nucleic acid conjugates with synthetic binding units, synthesizing conjugates on solid support using monomer/oligomer treating support with alkylamine solution, and treating support
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2003-300432/29
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                                                                                                                                                  AAC85339 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        19-JUL-2001; 2001US-00910469
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                                                                                                                                                                                                                                                                                                                                    Local Similarity
                                                                                                                                                                                                                                                                             4410 ATAGATAATAATAATAATAATAATAATGG 4441
                                                                                                                                                                                                                                             32
                                                                                                                                                                                                                                                                                                               21;
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                                    for PARP1A/PARP2B, PARP2U2 REV
                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mruecher C, Windhab
                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                0.3%;
                                                                                                                                                  cDNA;
                                                                                                                                                    21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Fiechtner M, Mueller-Ibeler J;
ndhab N, Orwick J, Schneider E,
                                                                                                                                                    쁌
                                                                                                                                                                                                                                                                                                                 0; Mismatches
                                                                                                                                                                                                                                                                                                                                  Score 14.4; DB 1; Length 32; Pred. No. 1.9e+03;
                                                                                                                                                                                                                                                                                                                 11;
                                                                                                                                                                                                                                                                                                               Indels
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                                                                                                                                                                                                                                                                                                                 Gaps
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RESULT 2246 AAA59808/c ID AAA5980

AAA59808 standard; DNA; 22

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wyouty arthritis; spondylltis; Behcet's disease; sepsis; septic shock; we endotoxic shock; gram negative sepsis; gram positive sepsis; trauma; toxic shock syndrome; multiple organ injury syndrome; vasculitis; whenorrhage; conjunctivitis; uveitis; thyroid-associated ophthalmopathy; eosinophilic granuloma; asthma; chronic bronchitis; allergic rhinitis; kw chronic obstructive pulmonary disease; slicosis; reperfusion injury; pulmonary sarcoidosis; pleurisy; alveolitis; pneumonis; myocardium; kw pulmonary sarcoidosis; pleurisy; alveolitis; pneumonis; myocardium; kw scar tissue formation; atherosclerosis; pseumonis; myocardium; kw scar tissue formation; atherosclerosis; systemic lupus erythematosus; kw autoimmune thyroiditis; multiple sclerosis; systemic lupus erythematosus; kw dronic glomerulonephritis; inflammatory bowel disease; Crohn's disease; ku lcerative colitis; necrotizing enterocolitis; inflammatory dermatosis; kw ulcerative colitis; necrotizing enterocolitis; inflammatory dermatosis; with a stopic dermatitis; psoriassis; urticaria; fever; kw myalgia; meningitis; encephalitis; Sjogren's syndrome; shock; alcoholic hepatitis; bacterial pneumonia; hypovolemic shock; thermal injury; cycokine-induced toxicity; expressed sequence tag; EST; kw RACE; PCR; amplify; primer; polymerase chain reaction; ss.
                                                                                                                                           Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                       The sequences given in AAC85321-40 and AAC85342-51 are primers which were used in the construction of baculovirus expression vectors for the expression of the fusion protein PARPIA/PARP2B. This protein contains amino acids 1-662 of hPARPI fused upstream of amino acids 230-583 of hPARP2. The fusion protein coding sequence is given in AAC85341. The protein of the invention, hPARP2, causes the covalent addition of polymers of ADP-ribose to protein targets. hPARP2 activity is induced in many instances of oxidative stress or during inflammation where there is direct damage to the DNA. hPARP2 may be used to identify antagonists which may be used to treat a human having a disorder mediated by PARP2 activity, such as, inflammatory, neurological, cardiovascular, or neeplastic tissue growth disorders. hPARP2 and antibodies to it, can also be used to diagnose these conditions
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New human poly(ADP-ribose) polymerase for treating inflammatory, neurological, cardiovascular, or neoplastic tissue growth disorders, as, arthritis, encephalitis, myocardial ischemia, and leukocyte
                                                                                                                                                                                                                                                                                             Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 3; Page 79; 129pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2001-025335/03.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           metastasis.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (ICOS-) ICOS CORP.
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                                                                     461
21
                                                                                                                                              Similarity 84.2
16; Conservative
                                                                     ererecercereceses 479
                                                                                                                                                                                                                                                                                             BP; 5 A; 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             99US-0139543P
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                                                                                                                                                                             0.3%;
                                                                                                                                                                                                                                                                                                     C;
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                                                                                                                                              0;
w
                                                                                                                                                                                 Score 14.2;
Pred. No. 1
                                                                                                                                                                                                                                                                                                 G; 1 T; 0 U;
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                                                                                                                                                  Mismatches
                                                                                                                                                                                 1.3e+03
                                                                                                                                                                                                                        DB 1; Length
                                                                                                                                                                                                                                                                                                     0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mcelligott
                                                                                                                                                  Indels
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                                                                                                       Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A method for detecting genes whose expression is altered by an endocrine disruptor is new and comprises isolation of mRNA from cells, tissue or organism which have come into contact with the endocrine disruptor, and hybridising it with a DNA array containing immobilized gene fragments from genes which may be affected by the endocrine disruptor. The results
                                                                                                                                                                                           cell cycle and growth regulation, oncogenes and tumour suppression, apoptosis, DNA damage response, repair and recombination, receptors, cell apoptosis, DNA damage response, repair and recombination, receptors, fate and development regulators, cell adhesion, mortility and invasion, angiogenesis regulation, invasion regulation, cell-cell interaction, Rho family small GTPase regulation and growth factors and cycokines. Sequences AAAS9772-AS9833 represent primers used to amplify the nucleotide sequences of genes which may be affected by an endocrine
                                                                                                                                                                                                                                                                                                                    dioxins, organic halocarbons, phenols, phthalate esters, arcmatic hydrocarbons, agrochemicals, organotin compounds, oestrogens, mylex, toxaphene, aldicarb and kepones. The types of genes whose expression may be altered by these disruptors include those involved in nuclear receptor transcriptional coupling, kinase type signal transduction, gonad differentiation, receptor type kinases, intermediate filament markers,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Endocrine disruptor; dioxins; organic halocarbon; phenol; agrocher phthalate esters; aromatic hydrocarbon; organitin compound; oestromylex; toxaphene; aldicarb; kepones; kinase signal transduction; nuclear receptor transcriptional coupling; gonad differentiation; intermediate filament marker; cell cycle; growth; regulation; once tumour suppressor; apoptosis; DNA damage response; cell adhesion;
                                                                                                                                                                                                                                                                                                                                                                                                                                 of the hybridisation are then compared with a comparison sample to establish which genes have altered expression. The method is used to detect genes whose expression is altered by endocrine disruptors such as
                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   mRNA from cells exposed to an endocrine disruptor is hybridized with DNA array of gene fragments for detection of genes whose expression is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2000-365642/31
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cytokine; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Primer for Bcl-X nucleotide sequence amplification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         06-OCT-2000
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                                                                                      Local
 22
                                                                     l Similarity
17; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TAKARA SHUZO CO
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                                 AAAGTCCTCCGACACCTCCCGG 3406
                                                                                                                                         22
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Page 69; 81pp; Japanese.
                                                                                                                                         BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    endocrine disruptor.
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                                                                                  0.3%;
                                                                                                                                         4 C;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         regulation; invasion regulation; growth factor;
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                                                               Score 14; DB
Pred. No. 1.5e
0; Mismatches
                                                                     0
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                                                                                                                                         7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Kimizuka F,
                                                                                                       DB 1;
                                                              ..5e+03;
5;
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                                                                                                     Length 22;
                                                                     Indels
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                                                                                                                                                                                                                                                                                        receptors, cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             oestrogen;
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RESULT 2247

Synthetic

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WO2003019199-A1

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RESULT 2248
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Matches
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                                                                                                                                                                                                                                                                                                                                                 The present invention describes bases in the shape of a string, tape or circular disc on the surface of which a plural number of different ligands are immobilised respectively in pre-determined domains. Also described are devices for detecting the binding between the ligands and receptors and methods for detection using these bases. The methods are useful for detection in biochemical and diagnostic assays. The ligands are immobilised in line, so the user only needs to determine the presence or absence of receptor binding, without further processing. AAH41754 to AAH41815 represent primers which are used in an example from the present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      String,
ligands
                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAH41790;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAH41790 standard;
                                                                 gene
                                                                                                Bcl-X gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2001-343623/36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Kato I,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         05-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              24-OCT-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      17-MAY-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      detection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              29-AUG-2001
                                                                            substrate; ligand; signal; ligand binding; immobilisation;
                                                                                                                       06-NOV-2003
                                                                                                                                             ADA00257;
                                                                                                                                                                  ADA00257
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (TAKI)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WO200135098-A1
                                                     igand-receptor
                                                                                                                                                                                                                                                                                 Local
                                                                engineering;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  string; tape; circular disc; ligand; immobilised; PCR primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       gene
                                                                                                                                                                                                                           22
                                                                                                                                                                                                                                                                     l Similarity
17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TAKARA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    tape or disk shaped bases with several different immobilized including nucleic acids, sugars, peptides and proteins.
                                                                                                                                                                  standard; DNA;
                                                                                                                                                                                                                                             AAAGTCCTCCGACACCTCCCGG 3406
                                                                                                                                                                                                                                                                                                                   22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Izu H,
                                                                                                                                                                                                                           AAAGTCAACCACCAGCTCCCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ВCR
                                                                                                 PCR primer SEQ ID NO:37.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      diagnosis; ss
                                                                                                                                                                                                                                                                                                                 B₽;
                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2000WO-JP007415
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SHUZO CO LTD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        99JP-00315610
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       primer SEQ ID NO:37.
                                                                                                                                                                                                                                                                                                                   N
                                                     g; genetic engineering; structure; biolo
binding; PCR primer; amplification; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                              43; 56pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Asada
                                                                                                                                                                                                                                                                                                                 Α;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DNA;
                                                                                                                                                                                                                                                                               0.3%;
                                                                                                                                                                                                                                                                                                                 4 C; 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ВÞ
                                                                                                                                                                                                                                                                                                                 G; 7
                                                                                                                                                                                                                                                                      0
                                                                                                                                                                                                                                                                                 Score 14;
Pred. No. 1
                                                                                                                                                                                                                                                                      Mismatches
                                                                                                                                                                                                                                                                                                                 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                 5e+03;
                                                                                                                                                                                                                                                                                           Length 22;
                                                                                                                                                                                                                                                                       Indels
                                                                biological activity;
                                                                                                                                                                                                                                                                      0
                                                                                                                                                                                                                                                                     Gaps
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0

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RESULT 2249
AAA79237/c
ID AAA7923
XX AAA7923
XX AAA7923
XX Human g
XX Human g
XX Human g
XX Homoo so
XX Phomo so
XX Phomo so
XX Phomo so
XX AAA7923
XX AAA7923
XX PAUG-
XX AAA7923
XX PAUG-
XX AAA7923
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Sim
Matches 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention describes a substrate having a number of ligands which have been immobilised onto a predetermined region of its surface, in which the region on the substrate has such a shape as to allow the concentration of signals caused by binding of the ligands to receptors in the region toward the receiver. Also described is a substrate for the immobilisation of such ligands. The substrates are applicable in gene engineering for studying relationship between structures and biological activity e.g. effect of endocrine disrupters on various genes and also in investigating the effect of hormones, drugs and other chemicals on the environment. Such substrates are highly sensitive in detecting the ligand-receptor binding, with affinity and reproducibility. The ligand-immobilised substrates can be produced in high density e.g. in microarray form to provide finely tuned results. ADA00221 to ADA00282 represent PCR primers used for amplifying genes in the exemplification of the present revertion.
                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; genomic DNA; polymorphism; genome; allele-specific; primer; probe; hybridisation; polymorphic site; forensic; paternity testing; medicine; phenotypic trait; genetic analysis; genetic mapping; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Substrates having number of ligands immobilized on predetermined regions of its surface, applicable in gene engineering for studying relationship between structures and biological activity of endocrine disrupters.
      Patil N,
                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAA79237 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 22 BP; 2 A; 4 C; 9 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              06-MAR-2003
                                                                                                                                                                                            26-JAN-2000; 2000EP-00250023
                                                                                                                                                                                                                                                                                                                         EP1024200-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human genomic DNA polymorphic site sequence tag SEQ ID NO:607
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 1; Page 39;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2003-290095/28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    22-AUG-2001; 2001JP-00250974
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               22-AUG-2002; 2002WO-JP008444
                                                                 (AFFY-) AFFYMETRIX INC.
                                                                                                                                27-JAN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20-NOV-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3385 AAAGTCCTCCGACACCTCCCGG 3406
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TAKARA BIO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAAGTCAACCACCAGCTCCCGG 1
   Shah N,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                99US-00238402
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.3%;
   Warrigton JA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   52pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 14; DB 1;
Pred. No. 1.5e+0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              <u>,,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
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밁
RESULT 2250
AAX01351
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             where the segment comprises a polymorphic site or an immediately adjacent base, or the complement of the segment. Also described are: (1) an allele specific oligonuclectide that hybridises to a segment of the novelty: (2) an isolated nucleic acid comprising a sequence of the novelty where the polymorphic site within the sequence is occupied by a base other than the reference base indicated in the specification; and (3) analysing a nucleic acid, comprising obtaining a nucleic acid from an individual, and determining a base occupying any one of the polymorphic sites of the novelty. The nucleic acid segments and method can be used to analyse an individuals nucleic acid sequences for the presence of polymorphisms. The presence of the phenotype with a particular polymorphism. The presence of polymorphic sites are useful for, e.g. forensics, paternity testing, correlation of polymorphisms with phenotypic traits and for genetic tags of human genomic DNA fragments containing polymorphic sites. The base occupying the polymorphic site is indicated using IUPAC-IUB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local S
Matches 17
                                                                                                                                                                                                                                                                                      Allelic ladder;
D21S11; D18S51;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human genomic polymorphic nucleic acid segments, allele specific primers and probes, and methods of analysis, useful for e.g. forensics, paternity
                                                                                                                                                                                                                               EP887426-A2
                                                                                                                                                                                                                                                                                                                              Allelic ladder,
                                                                                                                                                                                                                                                                                                                                                                                         AAX01351;
                                                                                                                                                                                                                                                                                                                                                                                                                     AAX01351 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention describes a nucleic acid segment of 10-100 contiguous bases chosen from one of 632 fragments (AAA78631 to AAA79262),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 1; Page 22; 141pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2000-500198/45
                                        WPI; 1999-047890/05
                                                                                                                                          28-JUN-1997;
                                                                                                                                                                      29-JUN-1998;
                                                                                                                                                                                                 30-DEC-1998
                                                                                                                                                                                                                                                                                                                                                              14-APR-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        testing,
                                                                                                                                                                                                                                                         Homo sapiens
                                                                                                             (UKHO-) UK SEC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3438 CCCTCAACAGCAAACCGGGGTCTC 3461
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    iguous bases chosen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            24 CCCTCAACRAGGCACTGGGGTCCC 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        genetic mapping,.
                                                                  Gillbard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BP; 4 A; 9 C; 11 G; 6 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                   Smith CI
bard SM,
                                                                                                             STATE HOME DEPT
                                                                                                                                          97GB-00013597
                                                                                                                                                                      98EP-00305120
                                                                                                                                                                                                                                                                                      human; HUMVWFA31/A; HUMTHO1; D8S1179; HUMFIBRA/FGA; AMG; forensic testing; DNA profiling; amelogenin sex test; ss
                                                                                                                                                                                                                                                                                                                                D18S51 allele 8.
                                                                                                                                                                                                                                                                                                                                                                                                                     DNA;
                                                                                 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  70.8%;
                                                                   Urquhart
                                                                                                                                                                                                                                                                                                                                                                                                                     32
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 14;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                   85
                                                                   Arnold C
Haywood
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 1;
                                                               J MD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 31;
                                                                   Johnson |
Gill P;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                          88
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New alleles and allelic ladder mixtures - DNA profiling in forensic environments.

useful as a control sample for

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RESULT 2251
ABN81203/c
ID ABN81203/c
XX ABN8120
XX O6-AUG-
DT 16-JUL-
XX Litoper
KW Litoper
KW Taura §
XX Taura §
XX FN W020003
XX TO-DEC-
XX (TUFT)
XX ABN8120
XX TO-DEC-
XX TO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local S
Matches 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     This sequence represents an allelic ladder, used in the allelic ladder mixture of the invention. The allelic ladder mixture comprises at least one of the following allelic ladders: (i) at least one allele for locus HUMVWFA31/A; (ii) one allele for locus HUMTHO1; (iii) at least one allele for locus BSS1179; (iv) at least one allele for locus HUMTHO1; (iv) at least one allele for locus BSS1. The allele for locus D21S11; and (vi) an allele for locus D28S1. The alleles or allelt ladders are useful in forensic tests for comparison with a sample DNA profile, when the profile is based on analysis of at least one loci of HUMVWFA31/A, HUMTHO1, D8S1179, HUMFIBRA/FGA, D21S11, D18S51 or ANG (amelogenin sex test). DNA profiling is useful in anthropological, paternity, maternity, crime detection and other forensic environments. The new allelic ladders have an improved range and coverage of DNA, and include a number of rare alleles which offers improved identification of an unknown sample
               The invention relates to an isolated polynucleotide (I) of the giant black tiger prawn, Penaeus monodon or expressed sequence tags of the pacific white shrimp, Litopenaeus vannemei (ABN80997-ABN81172), both containing microsatellites sequences including those p. monodon microsatellite sequences given in GenBank AF077550-AF077598. (I), the complementary sequence or fragment and the encoded polypeptide are useful
                                                                                                                                                                                                                                                     Polynucleotides of shi
characterizing of the
                                                                                                                                                                                                                                                                                                                                 WPI; 2000-423422/36.
                                                                                                                                                                                                                                                                                                                                                                                Alcivar-Warren A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     10-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    15-JUN-2000.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO200034476-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Litopenaeus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Litopenaeus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    06-AUG-2003
16-JUL-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ABN81203;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ABN81203 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 1;
  complementary sequence or 
for mapping of the genome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10-DEC-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Litopenaeus
                                                                                                                                                                                                                                                                                                                                                                                                                                     (TUFT ) TUFTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Taura Syndrome
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   black
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            w
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          l Similarity
20; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AGAGTCAGGAAGGAGAAAATGAAGAAGGAA 2823
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                                                                                                                                                                                                    Example 4; 120pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAAGAAAGAAAGAAAGAAAGAAAGAA 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      tiger praw
vannamei;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        B₽;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  vannamei.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             vannemei microsatellite detection probe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (revised)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              40;
                                                                                                                                                                                                                                                                                                                                                                                                                                     COLLEGE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Virus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    98US-0111670P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 prawn; Penaeus monodon; pacific white shrimp;
mei; shrimp; microsatellite sequence; genome m
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              P
                                                                                                                                                                                                                                                                             shrimp
                                                                                                                                                                                                                                                                                                                                                                                χ̈
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.3%;
                                                                                                                                                                                                                                                   genome o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TSV;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              o
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                                                                                                                                                                                                    English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            infection; probe; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 14;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           G; 0 T; 0
                                                                                                                                                                                                                                                     useful for identifying, mapping of various species of shrimp.
                                                                                                                                                                                                                                                                                                                                                                                Ŗ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
                                                                                                                                                                                                                                                                                                                                                                                Fan
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1;
                                                                                                                                                                                                                                                                                                                                                                                ۲
                                                                                                                                                                                                                                                                                                                                                                                Meehan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length
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                                                                                                                                                                                                                                                                                                                                                                                Garcia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   mapping;
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S$66688
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                                                        Matches
                                                                      Query Match
Best Local
                                                                                                                                           genome of Penaeus is useful for determining whether a test shrimp, preferably Litopenaeus vannemei, has a genotype associated with a phenotypic trait such as resistance to Taura Syndrome Virus (TSV) infection. The present sequence is that of a probe, useful in examples the invention. (Updated on 06-AUG-2003 to correct OS field.)
                                                                                                                 Sequence 32 BP; 0 A; 8 C; 0 G; 24 T; 0 U; 0 Other;
                           2794 AGAGTCAGGAAGGAGAAAATGAAGAAGGAA 2823
32 AAAGAAAGAAAGAAAGAAAGAAAGAA
                                                        20;
                                                                        Similarity
                                                        Conservative
                                                                      0.3%;
                                                        <u>.</u>
                                                                                      Score
                                                                         Pred.
                                                        Mismatches
                                                                         ö.
                                                                                    14;
                                                                        2.1e+03
                                                                                      DB 1;
                                                          10;
                                                                                      Length
                                                          Indels
                                                                                      32
                                                        0,
                                                        Gaps
                                                                                                                                                               얁
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RESULT 2252
AAV70431/c
                                                                                              Nucleic acid detection; nucleic acid characterisation; hybridisation; infection; disease; cancer; forensic; paternity; multiplexing; katG;
                                                  Synthetic
                                                                                                                                                  M. tuberculosis
                                                                                                                                                                                   08-APR-1999
                                                                                                                                                                                                                                                 AAV70431 standard; DNA;
WO9850403-A1
                                                                                 variant;
                                                                                                                                                                                                                    AAV70431;
                               Mycobacterium
                                                                                 PCR
                                                                                 primer;
                                                                                                                                                                                 (first entry)
                                tuberculosis.
                                                                                                                                                katG
                                                                                                                                                gene primer
                                                                                                                                                                                                                                                   20
                                                                                                                                                                                                                                                   ВP
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(THIR-) THIRD WAVE TECHNOLOGIES INC.

Dong F, Lyamichev VI, Prudent JR, Fors L, Neri BP, Brow MAI Anderson TA, Dahlberg JE;

05-MAY-1997; 19-SEP-1997;

97US-00851588. 97US-00934097. 98US-00034205.

03-MAR-1998;

05-MAY-1998;

98WO-US003194

12-NOV-1998

WPI; 1998-610317/51.

Detection and characterisation of nucleic acid sequences - by mixing a folded target and one or more probes to form a probe/folded target complex and detecting and characterising the complexes.

Example 1; Page 111; 279pp; English.

The invention relates to methods and compositions of detection and CC characterisation of nucleic acid sequences and sequence changes. One method of detection and characterisation comprises: (a) providing; (i) a folded target having a DNA sequence comprises: (a) providing; (i) a region and at least 1 single stranded comprising at least 1 double stranded complementary to at least a portion of the folded target; and (b) mixing the target and probes so that the probe hybridises to form a probe complementary to at least a portion of the folded target; and (b) mixing the target and probes so that the probe hybridises to form a probe continuous formation of mixing the target complex. Also provided are methods for determination of caridat targets; and for analysis of nucleic acid structures. The methods can be used for the detection and characterisation of nucleic acid sequences to detect the presence of pathogenic nucleic acid sequences of indicative of an infection, the presence of variants or alleles of mammalian genes associated with disease and cancers, and the cancers are the paternity determinations. The methods allow simultaneous

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RESULT 2253
ABL46041/C
ID ABL4604
XX ABL4604
AC ABL4604
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    멼
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 analysis of both strands (e.g. the sense and antisense strands) and are ideal for high-level multiplexing. The products produced are amenable to qualitative, quantitative and positional analysis. The methods may be performed in solution or in the solid phase (e.g. on a solid support). The methods are powerful in that they allow for analysis of longer fragments of nucleic acid than current methodologies. Sequences AAV70430-31 represent primers used for the PCR amplification of M. tuberculosis katG gene. This is used in the CFLP analysis of mutations in the katG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  17-JUN-2000;
15-JUN-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Nucleic acid accessible hybridisation site; detection; hybridisation, characterisation; identification; nucleic acid structure; diagnosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Lyamichev V,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          15-JUN-2001; 2001WO-US019401
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO200198537-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mycobacterium tuberculosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mycobacterium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           26-APR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ABL46041;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ABL46041 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (THIR-) THIRD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   906
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATACCCTGTGCCGCTGG 822
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   B₽;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     probe;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2000US-0212308P.
2001US-00212308.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Allawi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WAVE TECHNOLOGIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     tuberculosis katG gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6 C; 7 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        88.2%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Dong
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 13.8;
Pred. No. 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2
T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Neri BP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PCR primer SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      .4e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Vener
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
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The present invention describes a method for identifying oligonucleotides with desired hybridisation properties to nucleic acid targets containing secondary structure. The method comprises amplifying a target nucleic acid having at least one accessible and one inaccessible site. Primers that form an extension product are identified as the oligonucleotides which can interact with the folded target nucleic acid. Oligonucleotides from the present invention can be used in novel detection methods for clinical diagnostic purposes, including the detection and identification of pathogenic organisms (e.g. HIV). The method allows the ability to rapidly analyse nucleic acid structures. ABL46367 represent sequences used in the exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          primers that i amplification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Identifying oligonucleotides hybridizing to nucleic acids containing secondary structure, useful in clinical diagnosis, comprises identifying primers that interact with the target to form an extension product under
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Page 139; 409pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               conditions.
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Sequence 20

BP; 5 A; 6

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ç,

N

T; 0 U;

0 Other

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908

ATACCCTGTGCCGCTGG

Query Match Best Local S Matches 15

Similarity

0.3%; 6 C; 7

Score 13.8; DB 1; Pred. No. 1.4e+03;

Length 20;

4e+03;

15;

Conservative

0

Mismatches

Indels

0

Gaps

0

Sequence

20

BP;

v 2

G; 2

T; 0 U; 0 Other;

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RESULT 2254
ADK82231/c
ID ADK8223
XX ADK8223
XX ADK8223
XX Mycobac
XX nucleic
KW non-con
KW clinica
KW non-con
XX Synthet
XX Synthet
XX US67098
PN US67098
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         밁
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Best Local S
Matches 15
                                                                          The invention describes a method of analysing nucleic acids comprising providing a target nucleic acid, e.g. hepatitis C virus nucleic acid having non-contiguous single-stranded regions (NCSR) separated by an intervening region, a bridging oligonucleotide capable of binding to the first and second NCSR, a second oligonucleotide binding to a portion of the first NCSR and a cleavage gent, and mixing the contents to form a cleavage structure. The method is useful for analysing nucleic acids, e.g. hepatitis C virus nucleic acid useful for clinical diagnostic purposes and detection and identification of pathogenic microorganisms such as hepatitis C virus. This sequence represents a primer used in the isolation of a Mycobacterium tuberculosis katG gene polynucleotide labelled with tetrachlorofluorescein (TET) used to demonstrate the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Analyzing nucleic acids, comprises mixing target nucleic acid hepatitis C virus nucleic acid, bridging oligonucleotide, secon oligonucleotide and cleavage agent to form cleavage structure
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    non-contiguous single-stranded region; NCSR; c clinical; diagnostic; microorganism detection; microorganism identification; katG; target var
                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2004-256067/24.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        03-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               05-MAY-1997;
19-SEP-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  18-JUL-2000; 2000US-00402618
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US6709815-B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mycobacterium tuberculosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Anderson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     nucleic acid analysis; hepatitis C virus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mycobacterium tuberculosis katG PCR primer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (THIR-)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Lyamichev VI,
TA, Dahlberg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATACCTTGGGCCGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQ ID NO 8; 143pp; English.
                                                            the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WAVE TECHNOLOGIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      97US-00851588.
97US-00934097.
98US-00034205.
                                                            invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Prudent JR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4
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Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Fors L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NCSR; cleavage structure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        .4e+03
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       variant;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Neri BP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            á
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Brow MAD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    весond
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RESULT 2256
AAC78944
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AAN92605/c
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                                                                                                                                                                                                                                                                                           Query Match
Best Local
  08-MAR-1999;
12-MAR-1999;
                                                                                                                                                                                                                                                                                                                                       Primer carries four restriction sites: NotI; SfiI; NcoI and XhoI. It has sticky ends with 5' overlappng 3' with -AGCT. Expressed from pUC19 as a PstI-PvuII fragment. (Updated on 10-MAR-2003 to add missing OS field.)
                            18-FEB-2000; 2000WO-US004341.
                                                                                     Homo sapiens
                                                                                                       expressed
                                                                                                                                   Human PRO618 hybridisation
                                                                                                                                                       08-FEB-2001
                                                                                                                                                                                            AAC78944 standard;
                                                                                                                                                                                                                                                                                                                      Sequence 24 BP; 3 A; 9 C; 9 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                               Claim 1; Page 697; 8pp;
                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 1989-368597/50.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     28-APR-1988;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             JP01277490-A
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18-MAY-1990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAN92605 standard; DNA; 24 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Primer; pUC19; lambda;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 (MITU ) MITSUBISHI KASEI CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Primer
                                                                                                                                                                                                                                                               3785
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                                                                                                                  secreted
                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                           CGAGGCCATGGCGGCCG
                                                                                                                                                                                                                                                             ceaeecaeeceece 3801
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                                                                                                       sequence
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                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                      (first entry)
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(first entry)
 99WO-US005028.
99US-0123957P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       88JP-00106155
                                                                                                     protein; transmembrane protein; PRO; EST; cytostatic;
nce tag; detection; cancer; PCR primer; probe; ss.
                                                                                                                                                                                            DNA;
                                                                                                                                                                                                                                                                                          0.3%;
                                                                                                                                                                                                                                                                                                                                                                               Japanese.
                                                                                                                                                                                            24
                                                                                                                                                                                                                                                                                                                                                                                                           obtd. from cleaved fragment of restriction
                                                                                                                                                                                            ВP
                                                                                                                                                                                                                                            σ
                                                                                                                                   probe SEQ ID NO:573.
                                                                                                                                                                                                                                                                                 0;
                                                                                                                                                                                                                                                                                           Score 13.8;
Pred. No. 1.
                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                        1.7e+03
                                                                                                                                                                                                                                                                                                   DB 1;
                                                                                                                                                                                                                                                                                                  Length 24;
                                                                                                                                                                                                                                                                                 Indels
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RESULT 2257
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                          Human; tumour; diagnosis; neoplastic disease; identification; cancer; tumourigenesis; detection; neoplastic cell growth; proliferation; cytostatic; antiinflammatory; immunomodulatory; inflammatory disorder immunological disorder; hybridisation; probe; PCR primer; ss.
        Homo sapiens
                                                                          Human PRO618
                                                                                             25-JAN-2001
                                                                                                                                   AAC58204 standard;
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CCTCCGTCCCCTTCCTC 20

DNA;

24

hybridisation probe (first entry)

SEQ ID

NO:115

disorder;

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Best Local Similarity Matches 15; Conserv
                                                   Query Match
Best Local
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26-JUL-1999;
29-OCT-1999;
30-NOV-1999;
02-DEC-1999;
02-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                Ferrara
Goddard
Kljavin
Stewart
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           05-JAN-2000;
06-JAN-2000;
06-JAN-2000;
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21-APR-1999;
28-APR-1999;
14-MAY-1999;
                                                                                                                  AAC78458 to AAC78599 represent polynucleotide and EST (expressed sequence tag) sequences which encode secreted or transmembrane PRO polynucleotides and polypeptides have cytostatic activity. The polynucleotides and polypeptides can be used for detecting the presence of PRO polypeptides in samples, for linking bloactive molecules to cells and for modulating biological activities of cells, using the polypeptides for specific targeting. The polypeptide targeting can be used to kill the target cells, e.g. for the treatment of cancers. The polypeptide provide specific targeting of bloactive molecules to cells. AAC78600 to AAC78987 represent PCR primers and probes used in the isolation of the PRO polynucleotide sequences
                                                                                                                                                                                                                                                                                                                             Novel PRO polypeptides and polynucleotides used in detection methods, target bloactive molecules to specific cells, and to modulate cellula
                                                                                           Sequence 24 BP; 1 A; 14 C; 1 G; 8 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                 target bioa activities.
                                                                                                                                                                                                                                                                                                                                                                                                                                        Ashkenazi AJ, Baker KP, Ferrara N, Filvaroff E,
                                                                                                                                                                                                                                                                                     Example 114; Page 342; 636pp; English.
                                                                                                                                                                                                                                                                                                                                                                      WPI; 2000-611443/58.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      30-DEC-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  30-DEC-1999;
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1244 CCTCCGTCCACGTCCTC 1260
                                                                                                                                                                                                                                                                                                                                                                                                IJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENENTECH INC
                                                                                                                                                                                                                                                                                                                                                                                                J, Baker KP, Botstein D, Desnoyers L, Filvaroff E, Fong S, Gao W, Gezber H, Godowski PJ, Grimaldi CJ, Gurney AL, Kuo SS, Napier MA, Pan J, Paoni NF, Tumas D, Williams PM, Wood WI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; 2000WO-US000219.
; 2000WO-US000277.
; 2000WO-US000376.
                                      Conservative
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99US-0130232P.
99US-0131445P.
99US-0134287P.
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99WO-US028313
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                                                0.3%;
                                     0
                                                                Score 13.8;
                                                   Pred.
                                      Mismatches
                                                    No.
                                                                                                                                                                                                                                                                                                                                                                                             , Desnoyers L, L. Berric. And W. Gerber H, Gerric. They AL, Hillan KJ;
                                                1.7e+03;
                                                                 8
                                                                Length
                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                         Eaton DL;
Gerritsen ME;
                                                                                                                                                                                                                                                                                                                              modulate cellular
                                                                24;
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                                     Gaps
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RESULT 2258
ACA63941
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AAC58123 to AAC58224 represent hybridisation probes and PCR primers used in the isolation of the human PRO sequences. AAC58241 and AAB24041 to AAB24056 represent human PRO polynucleotide and protein sequences given in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  12-WAR-1999
12-WAR-1999
29-WAR-1999
21-APR-1999
21-APR-1999
05-OCT-1999
30-NOV-1999
02-DEC-1999
02-DEC-1999
30-DEC-1999
30-DEC-1999
 Human; secreted and transmembrane protein; PRO; antiinflammatory; antiarteriosclerotic; cardiant; anti-infertility; anti-HIV; cytos antidiabetic; gene therapy; inflammatory disease; organ failure; atherosclerosis; cardiac injury; infertility; birth defect;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New isolated antibody for use in compositions and mammals, including humans, and in monitoring tumor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present inven
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           14-SEP-2000
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                                                                                         Novel
                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 24
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Baker
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       06-JAN-2000;
                                                                                                                           16-JUN-2003
                                                                                                                                                                                                  ACA63941 standard; DNA;
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                                                                                         human
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15; Conserv
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nilarity 88.2%;
Conservative
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                                                                                         secreted and
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                                                                                                                           (first entry)
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99US-0126773P
99US-0131445P
99US-0131445P
99WO-US023089
99WO-US0288113
99WO-US028551
99WO-US031243
99WO-US031243
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                                                                                                                                                                                                                                                                                                                                                                                                                                     14 C; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            describes an isolated antibody (Ab) that binds ins (P) designated PRO213, PRO1330, PRO1449,
                                                                                                                                                                                                  24
                                                                                        transmembrane protein related
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Goddard
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                                                                                                                                                                                                  ВP
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Pred. No. 1.7e+03;
0; Mismatches 2
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                                                                                                                                                                                                                                                                                                                                                                                                                                     0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                Length 24;
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defect;
                                                                                      probe
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                                   cytostatic;
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 20-MAR-1998
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01-APR-1998
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15-APR
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11-MAR-1998;
11-MAR-1998;
11-MAR-1998;
12-MAR-1998;
13-MAR-1998;
17-MAR-1998;
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13-NOV-1997;
21-NOV-1997;
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98US-0077450P

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98US-0077991P

98US-0078936P

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98US-00799294P

98US-00799294P

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99WO-US001106

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99WO-US028551
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RESULT 2259
ACA72105
ID ACA7210
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Matches 15; Conserv
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Best Local 9
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Ferrara N, E
Inddard A, Gou
Invin IJ, Kuc
In TA, In T
                                                                                                                                                                                                                                         is at least 80 % sequence identity to, or the full-length coding sequence of, any of 118 300-2100 nucleotide sequence, which encodes its corresponding PRO polypeptide selected from 118 100-700 amino acid sequences, all given in the specification. The nucleic acids and polypeptides are useful for treating inflammatory diseases, organ failure, atherosclerosis, cardiac injury, infertility, birth defects, premature aging, AIDS, cancer, or diabetic complications. The nucleic acids are useful as hybridisation probes, in chromosome and gene mapping, and in generating antisense RNA or DNA. The polypeptides are useful as pharmaceuticals, diagnostics, biosensors or biotreactors. Both are useful in tissue typing. This sequence represents a novel human secreted and transmembrane PRO polypeptide associated probe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            06-JAN-2000

06-JAN-2000

11-FEB-2000

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30-DEC-1999;
05-JAN-2000;
 ACA72105 standard; DNA;
                                                                                                                                                                                                                         Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    secreted
                                                                                                                      1244 CCTCCGTCCACGTCCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             reted and transmembrane nucleic acids and polypeptides, designated useful for treating inflammation, organ failure, atherosclerosis, injury, infertility, birth defects, premature aging, AIDS, or
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N, Filvaroff E,
A, Godowski PJ,
IJ, Kuo SS, Napi
TA, Tumas D, Wi
                                                                                                                                                    0.3%;
ilarity 88.2%;
Conservative
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2000WO-US006319

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2000WO-US013705

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2000WO-US015264

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99WO-US031274.
2000WO-US000219.
2000WO-US000277.
2000WO-US000376.
2000WO-US003565.
2000WO-US003341.
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E, Fong S, Gao W, Gerber H, Gerritsen ME;
PJ, Grimaldi JC, Gurney AL, Hillan KJ;
Napier MA, Pan J, Paoni NF, Roy MA, Shelto
Williams PM, Wood WI;
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                                                                                                                                                                      Score 13.8; DB 1
Pred. No. 1.7e+03
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                                                                                                                                                                                       DB 1;
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07-DEC-1998

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07-DEC-1998

08-WAR-1999

10-WAR-1999

11-WAR-1999

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11-MAR-1998;
12-MAR-1998;
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98US-0078980P

98US-0079939P

98US-0079656P

98US-0079664P

98US-0079689P

98US-0079689P

98US-0079689P

98US-0079728P

98US-0079728P

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16-DEC-1999 99WO-US031095.
30-DEC-1999 99WO-US031274.
05-JAN-2000 2000WO-US000217.
06-JAN-2000 2000WO-US000277.
06-JAN-2000 2000WO-US000277.
06-JAN-2000 2000WO-US000376.
11-FEB-2000 2000WO-US000565.
11-FEB-2000 2000WO-US00565.
11-FAR-2000 2000WO-US0056319.
21-MAR-2000 2000WO-US006319.
21-MAR-2000 2000WO-US013705.
22-MAR-2000 2000WO-US013705.
22-MAR-2000 2000WO-US013705.
22-MAR-2000 2000WO-US014042.
30-MAY-2000 2000WO-US015264.
22-JUN-2000 2000WO-US015264.
23-JUN-2000 2000WO-US015264.
26-JUN-2000 2000WO-US015264.
28-JUN-2000 2000WO-US015264.
28-JUN-2000 2000WO-US015264.
28-JUN-2000 2000WO-US015264.
28-JUN-2000 2000WO-US015264.
28-MAR-2001 2000WO-US0152678.
29-DEC-2000 2000WO-US0152678.
20-DEC-2000 2000WO-US0036778.
20-DEC-2000 2000WO-US003678.
20-MAR-2001 2001WS-00816920.
22-MAR-2001 2001WS-00816744.
22-MAR-2001 2001WS-00854280.
22-MAR-2001 2001WS-00854280.
23-MAY-2001 2001WS-00854280.
25-MAY-2001 2001W
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Goddard
Kljavin
Stewart
                                                                                                                                                                                        The invention relates to an isolated secreted and transmembrane polypeptide, designated as PRO polypeptide. The PRO polypeptide is useful in PRO polypeptide detection methods. The PRO polypeptide is useful for linking a bioactive molecule to a cell. The PRO polypeptide or an antibody against it is useful for modulating a biological activity of a cell. The PRO polypeptide is useful in industrial applications including pharmaceuticals, diagnostics, biosensors and bioreactors. The PRO polypeptide is a thrombolytic agent, interferon, interleukin, erythropoietin, colony stimulating factor and other cytokines. The PRO polypeptide is useful for treating disease such as cancer e.g. colorectal carcinoma; apoptosis related conditions e.g. AIDS, amyotrophic lateral sclerosis; inflammatory disease e.g. asthma, and the conditions of the colorectal carcinoma; apoptosis related conditions e.g. AIDS, amyotrophic lateral sclerosis; inflammatory disease e.g. asthma, and the color of 
atherosclerosis; neurodegenerative disease e.g. Alzheimer's disease, Parkinson's disease; cardiovascular disease e.g. hypertension and myocardial ischaemia; kidney disease e.g. renal failure and glomerulonephritis; lung disease e.g. pulmonary hypertension, bronch
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a N, Filvaroff E,
d A, Godowski PJ,
n IJ, Kuo SS, Nap
t TA, Tumas D, Wi
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f E, Fong S, Gao W, Gerber H, Gerritsen ME;
PJ, Grimaldi JC, Gurney AL, Hillan KJ;
Napier MA, Pan J, Paoni NF, Roy MA, Shelto,
Williams PM, Wood WI;
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     bronchial
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RESULT 2260
ABX92745
ID ABX9274
XX ABX9274
XX OB-MAY-
XX Human P
XX Human P
XX Human P
XX immune
KW cardiac
KW cardiac
KW Gantiart
KW Genetic
KW Cardian
XX Cardian
XX Cardian
XX Immune
PF 16-OCT-
XX 11-MAX-
PF 17-OCT-
PR 11-MAR-
PR 20-MAR-
PR 20-MAR-
PR 27-MAR-
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Best Local S
Matches 15
11-MAR-1998
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17-OCT-1997;
03-NOV-1997;
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21-NOV-1997;
10-MAR-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 asthma; gastrointestinal disorders e.g. gastric ulcer and inflammatory bowel disease; reproductive disorders e.g. premature labour and preeclampsia; carcinogenesis. The present sequence represents a PRO polypeptide associated oligonucleotide of the invention. Note: The sequence data for this patent did not form part of the printed specification but was obtained in electronic format directly from USPTO at sequence.org/lease-sequence.html?DocID=20020177553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
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15; Conservative
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97US-0064249P
97US-0065311P
97US-0065364P
98US-0077645P
98US-0077649P
98US-0077649P
98US-0077649P
98US-0079910P
98US-0078910P
98US-0078936P
98US-0079924P
98US-0079924P
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97US-0062250P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 13.8;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  573.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
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32-WAY-2000
30-MAY-2000
22-UUN-2000
24-UUL-2000
24-UUL-2000
24-EUG-2000
08-NOV-2000
09-NOV-2000
27-NOV-2000
20-DEC-2000
20-DEC-2000
20-DEC-2000
21-EEB-2001
22-WAR-2001
22-WAR-2001
22-WAR-2001
22-WAR-2001
22-WAR-2001
22-WAR-2001
22-WAR-2001
21-UUN-2001
10-MAY-2001
10-MAY-2001
11-UUN-2001
01-UUN-2001
01-UUN-2001
01-UUN-2001
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30-DEC-1999
05-JAN-2000
06-JAN-2000
06-JAN-2000
11-FEB-2000
18-FEB-2000
10-MAR-2000
10-MAR-2000
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11-MAR-2000
11-MAR-2000
11-MAR-2000
11-MAR-2000
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25-AUG-1999;
25-AUG-1999;
30-NOV-1999;
02-DEC-1999;
02-DEC-1999;
16-DEC-1999;
                                                          Ferrara
Goddard
Kljavin
Stewart
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              02-NOV-1998;
06-NOV-1998;
20-NOV-1998;
07-DEC-1998;
22-DEC-1998;
 Novel secreted and transmembrane polypeptides and polynucleotides encoding them useful for treating cancer, kidney diseases, bone,
                                     WPI; 2003-288163/28.
                                                                                                      Ashkenazi A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           12
                                                         ĮĮ, A,
                                                                                                                               GENENTECH INC.
                                                      A, Baker KP, B
Filvaroff E,
Godowski PJ,
Kuo SS, Napi
                                                                                                                                                                                                                                                                                                                2000WO-US005841
2000WO-US006319
2000WO-US00753
2000WO-US018439
2000WO-US014941
2000WO-US014941
2000WO-US020710
2000WO-US020710
2000WO-US023328
2000WO-US023378
2000WS-00723749
                                                                                                                                                                                     2001US-00854208.

2001US-00854280.

2001US-00872035.

2001US-00872035.

2001US-00872035.

2001US-0087263.

2001US-0088263.

2001US-00886342.

2001US-00886342.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          99WO-US031274.
2000WO-US000219.
2000WO-US000277.
2000WO-US000376.
2000WO-US003565.
2000WO-US004341.
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2001WO-US009552.
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99WO-US010733
99WO-US012252
99US-00380137
99US-00380138
99US-00380142
99WO-US028551
99WO-US028555
99WO-US028555
99WO-US028555
99WO-US031243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                98US-00202054.
98US-00218517.
99WO-US000106.
99US-00254465.
99WO-US005028.
99US-00265686.
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98US-00187368.
98WO-US024855.
                                                        P, Botstein D, Desnoyers L, Eaton D;
E, Pong S, Gao W, Gerber H, Geritsen ME;
PJ, Grimaldi JC, Gurney AL, Hillan KJ;
Napier MA, Pan J, Paoni NF, Roy MA, Shelt
Williams PM, Wood WI;
                                                                      Shelton DL;
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ACA66486
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Best Local S
          17-OCT-1997

03-NOV-1997;

13-NOV-1997;

21-NOV-1997;

21-NOV-1997;

11-NAR-1998;

11-NAR-1998;

11-NAR-1998;

11-NAR-1998;

12-NAR-1998;

13-NAR-1998;

13-NAR-1998;
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                                                                                                                                                                                                                                                        renal
                                                                                                                                                   15-OCT-2001; 2001US-00978189
                                                                                                                                                                          02-JAN-2003
                                                                                                                                                                                                 US2003004102-A1.
                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                                                                             Human
                                                                                                                                                                                                                                                                                                                                                                           ACA66486;
                                                                                                                                                                                                                                                                                                                                                                                                ACA66486 standard; DNA; 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 24
                                                                                                                                                                                                                                                                                                                                                    24-JUN-2003
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97US-0062250P
97US-0064249P
97US-0065311P
97US-0065364P
98US-0077450P
98US-0077641P
98US-0077649P
98US-0077791P
98US-0077791P
98US-0078886P
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                                 S-0066364P.
S-0077450P.
S-0077632P.
S-0077641P.
S-0077649P.
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cartilage disorders and immune deficiencies 459pp; English

The present invention relates to the isolation of novel human PRO CC polypeptides, and the polynucleotide sequences encoding them. The PRO CC polypeptides are secreted and transmembrane proteins. The PRO CC polypeptides are useful for detecting other PRO polypeptides, for linking CC bloactive molecules to cells expressing PRO polypeptides, for modulating CC bloactive molecules or antagonists. The bloactive molecule maybe a CC toxin, radiolabel or antibody, and causes apoptosis or death of the cell. CC The PRO polypeptides are useful for treating immune disorders, diabettes or hyper- or hypo-insulinaemia, cardiac insufficiency, nervous system CC disorders, kidney disorders, bone and cartilage disorders or arthritis, tumours, and wound healing. The polynucleotide sequences encoding PRO polypeptides are useful as hybridisation probes, in chromosome and gene CC mapping, in the generation of antisense RNA and DNA, in the preparation of PRO polypeptides, for generating transgenic animals or knockout canimals, for the generatic analysis of individuals with genetic disorders, and in gene therapy. The present sequence represents a probe used in the examples of the present invention. Note: The sequence data for this cat seqdata.uspto.gov/psipsDIDEntry.html

14 C; 1 G; 8 T; 0 U; 0 Other;

0.3%; 0 Score 13.8; DB 1 Pred. No. 1.7e+03 Mismatches DB 1; Length 24; Indels , , Gaps 0

20

₽P

secreted/transmembrane protein PRO618 TaqManPCR probe.

Human; ss; PCR; secreted protein; transmembrane protein; PRO; probe; malignancy; cancer; ovarian cancer; colorectal cancer; sarcoma; leukaemia; lymphoma; inflammatory disease; necrossis; atherosclerosis; infertility; premature aging; psoriasis; inflammatory disease; renal disease; arthritis; immune-mediated alopecia; stroke; encephalitis;

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RESULT
ADA2511
ID AD
XX
AC AD
XX
                                                                                                                                                                                                                                                                        The invention relates to a new isolated nucleic acid molecule comprises a compared with at least 80% identity to: (a) a nucleotide encoding any of 94 PRO polypeptides whose sequences are fully defined in the comparison of the full length coding sequences fully defined in the specification; or the full length coding sequences fully defined in the convergence of the propertide sequences. Also included are an isolated PRO polypeptide scoring at least 80% positives when compared to any of the PRO polypeptide sequences cited above (or an isolated PRO polypeptide having the least 80% amino acid sequence identity to: (a) an amino acid sequence composited with ATCC numbers listed in the competition or (c) an extracellular domain of the PRO polypeptide, with or cacid molecule, a host cell comprising the vector comprising the nucleic complexities; the sasociated signal peptide), a vector comprising the nucleic complexities and an anti-PRO antibody. The PRO polypeptide or polypeptide or polypeptide fuse are useful as pharasceuticals, conscriptions or biosensors or bioreactors. These are particularly useful for detecting or treating e.g. malignancies or canners (e.g. ovarian cancer, colorectal cancer, sarcoma, leukaemia or lymphoma), inflammatory disease, inflammatory disease, arthritis, immune-mediated alopecia, conversis, atherosclerosis, infertility, premature aging, psoriasis. The PRO polypeptides are useful in drug screening, psoriasis. The process of the presence of these diseases, and in the diagnostic contentiation of the presence of these diseases, and in the diagnostic contentification. The pro genes are useful as hybridisation probes, or for screening ilbraries of human cDNA, genomic DNA or RNA. The PRO genes may concern the present sequence is a TagMan PCR probe used in a Nortern blot experiment to detect PRO sequences in certain cancer cell lines.
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Best Local S
Matches 15
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Ferrara N,
Goddard A,
Kljavin IJ,
Stewart TA,
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20-JUN-2001;
29-JUN-2001;
09-JUL-2001;
30-JUL-2001;
                                                                                                                                                                                                                                                                        Sequence
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PRO1559), useful for treating
atherosclerosis, infertility,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 114; Page 193; 460pp; English.
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                                                                        2262
12
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                                                                                                                                                                                                     Similarity 88.
L5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     i AJ, Baker KP,
N, Filvaroff E,
A, Godowski PJ,
IJ, Kuo SS, Napi
TA, Tumas D, Wi
                                                                                                                                                         CCTCCGTCCACGTCCTC
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; 2001WO-US019692.
; 2001WO-US021066.
; 2001WO-US021735.
; 2001US-00918585.
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f E, Fong S, Gao W, Gerber H, Gerritsen ME;
PJ, Grimaldi JC, Gurney AL, Hillan KJ;
Napier MA, Pan J, Paoni NF, Roy MA, Shelt, Williams PM, Wood WI;
                                                                                                                                                                                                                                                                        14
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                                                                                                                                     20
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                                                                                                                                                                                                                        Score 13.8;
Pred. No. 1.
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ADA25112;

ADA25112 standard;

DNA;

20. MAR 1998
20. MAR 1998
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27. MAR 1999
26. JUN 1998
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23. MAR 2000
24. KEB 2000
25. AUG 1999
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27. MAR 2000
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28. FEB 2000
29. JUN 2001
29. MAR 2001
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24. JUN 2001
25. MAR 2001
26. JUN 2001
27. MAR 2001

98US-0078910P 98US-0079234P 98US-0079234P 98US-0079654P 98US-0079664P 98US-0079668P 98US-0079788P 98US-0079788P 98US-0079788P 98US-0079788P 98US-0079788P 98US-0079788P 98US-0079788P 98US-0079788P 98US-0079781P 98US-0016411 98US-00168978 98US-00168978 98US-00168978 98US-00184216 99US-0026565 99US-0026565 99US-0026565 99US-0026561 99US-00267213 99US-002672

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12-MAR-1998
20-MAR-1998
20-MAR-1998
20-MAR-1998
20-MAR-1998
20-MAR-1998
20-MAR-1998
20-MAR-1998
27-MAR-1998
27-MAR-1998
27-MAR-1998
31-MAR-1998
32-APR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; secreted and transmembrane protein; PRO; gene; ss; tissue typing; chromosome identification; vaccine; cancer; retinal disorder; sports-related joint disorder; osteoarthritis; rheumatoid arthritis; wound healing; obesity; diabetes; hearing loss; cardiac insufficiency disorder; kidney disorder; nervous system disorder; haemoglobin associated disorder; expressed sequence tag; EST.
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D-MAR-1998;
L-MAR-1998;
L-MAR-1998;
L-MAR-1998;
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   97US-0062250P

97US-006311P

98US-0077631P

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98US-00778910P

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98US-00778936P

98US-0079656P

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98US-0080107P

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98US-0081239P

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29-APR-1998

30-APR-1998

06-MAY-1998

06-MAY-1998

07-MAY-1998

07-MAY-1998

07-MAY-1998

07-MAY-1998

07-MAY-1998

13-MAY-1998

15-MAY-1998

16-JUN-1998

22-MAY-1998

23-JUN-1998

23-JUN-1999

24-APR-1999

25-APR-1999

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27-APR-1999

28-APR-1999

29-OUT-1999

29-OUT-1999

20-DEC-1999

30-DEC-1999

30-DEC-1999
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98US-008354P.
98US-008354P.
98US-0083559P.
98US-0084366P.
98US-008441P.
98US-008462P.
98US-008463P.
98US-008463P.
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98US-01313621P.
99US-01312359P.
98US-01312359P.
99US-01312359P.
98US-01312359P.
99US-01312359P.
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disease; ing; gene

therapy;

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Ferrara N,
Goddard A,
Kljavin IJ,
Stewart TA,
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24 - AUG - 2000;
27 - AUG - 2000;
28 - FEB - 2001;
29 - WAR - 2001;
20 - JUN - 2001;
                                                                                                                                                                                                                                                                                                               The invention describes an isolated secreted and transmembrane (PRO) polypeptide (I). PRO337 polypeptide is useful for detecting PRO4993 polypeptide in a sample, and vice versa. PRO725, PRO700 and PRO739 are useful for detecting PRO1559 polypeptide in a sample, and PRO1559 is useful for detecting PRO725, PRO700 and PRO739 in a sample. PRO4993 is useful for linking a bioactive molecule to a cell expressing a PRO337 polypeptide, and PRO337 is useful for linking a bioactive molecule to a cell expressing a PRO4993 polypeptide. PRO1559 is useful for linking a bioactive molecule to a cell expressing a PRO4993 polypeptide. PRO735, PRO700 and PRO739 polypeptide, and PRO735, PRO700 and PRO739
Human; secreted and transmembrane protein; PRO; cell death; peripheral neuropathy; diabetic peripheral neuropathy; AIDS-associated neuropathy; Charcot-Marie-Tooth disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New isolated PRO polypeptides for example extracellular, secreted and membrane bound proteins, useful for modulating the biological activities of cells and for treating, for example diabetes, cancer, rheumatoid arthritis, and hearing loss.
                                                       Novel
                                                                                   08-SEP-2003
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N, Filvaroff E, Fong S,
N, Godowski PJ, Grimald
A, Godowski PJ, Grimald
IJ, Kuo SS, Napier MA,
TA, Tumas D, Williams P.
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nilarity 88.2%;
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                                                   secreted and transmembrane protein related probe
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Fong S, Gao W, Gerber H, Gerritsen
Grimaldi JC, Gurney AL, Hillan KJ;
ier MA, Pan J, Paoni NF, Roy MA, Sh
lliams PM, Wood WI;
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Ferrara N,
Goddard A,
Kljavin IJ
Stewart TA
                                                                                                       probe; s
                                                                                                                                                                                                                                                                                                                                                                                                   The invention describes an isolated, secreted and transmembrane polypeptide, termed PRO polypeptide (I). (I) is useful for detecting PRO4993, PRO317, PRO1559, PRO7025, PRO700 or PRO719 polypeptide, and for linking a bioactive molecule to a cell expressing the above polypeptides. The bioactive molecule is a toxin, radiolabel or an antibody and causes cell death. (I) is useful as therapeutic agent, in medical and industrial applications e.g. for treating neuropathy, especially peripheral neuropathy, diabetic peripheral neuropathy, AIDS-associated neuropathy, Charcot-Marie-Tooth disease, Refusum's disease, Abetalipoproteinaemia, Tangier disease, Krabbe's disease, Metachromatic leukodystrophy, Fabry's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Novel secreted and transmembrane polypeptide activity of cell expressing the polypeptide, and as molecular
                                        US2003055216-A1
                                                                                                                                               Human
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                                                                                                                                               secreted/transmembrane polypeptide PRO618 probe
                                                                                                       ss; inflammatory disease; organ failure; atherosclerosis;
c injury; infertility; birth defect; premature aging; AIDS;
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Kuo SS, Napie
Tumas D, Will
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Filvaroff E,
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f E, Fong S, Gao W, Gerber H, Gerritsen ME;
PJ, Grimaldi JC, Gurney AL, Hillan KJ;
Napier MA, Pan J, Paoni NF, Roy MA, Shelt,
Williams PM, Wood WL;
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29-APR 1998; 29-APR 1998; 29-APR 1998; 29-APR 1998; 30-APR 1998; 05-MAY 1998; 06-MAY 1998; 07-MAY 1998;	PR 08-APR-1998; 98US-0081071P. PR 09-APR-1998; 98US-0081195P. PR 09-APR-1998; 98US-0081203P. PR 15-APR-1998; 98US-0081813P. PR 15-APR-1998; 98US-0081813P. PR 15-APR-1998; 98US-0081819P. PR 15-APR-1998; 98US-008195P. PR 15-APR-1998; 98US-008195EP. PR 21-APR-1998; 98US-0082568P. PR 21-APR-1998; 98US-0082794P. PR 22-APR-1998; 98US-0082794P. PR 22-APR-1998; 98US-0082794P. PR 22-APR-1998; 98US-0082794P. PR 23-APR-1998; 98US-008336P. PR 23-APR-1998; 98US-008336P. PR 29-APR-1998; 98US-008349SP.	25-MAR-1998 27-MAR-1998 27-MAR-1998 27-MAR-1998 27-MAR-1998 27-MAR-1998 30-MAR-1998 30-MAR-1998 31-MAR-1998 31-MAR-1998 31-MAR-1998 31-MAR-1998 31-MAR-1998 31-APR-1998 01-APR-1998 01-APR-1998 01-APR-1998 01-APR-1998 01-APR-1998	21-MAY-1996; 17-OCT-2001; 21-MAY-1997; 17-OCT-1997; 03-NOV-1997; 21-NOV-1997; 21-NOX-1998; 11-MAR-1998; 11-MAR-1998; 11-MAR-1998; 12-MAR-1998; 13-MAR-1998; 17-MAR-1998; 20-MAR-1998; 20-MAR-1998; 20-MAR-1998; 20-MAR-1998;
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                                                                             Human; secreted and transmembrane protein; PRO; viral infection; tumour growth; retinal disorder; injury; sight loss; retinitis pigmentosum; age-related macular degeneration; sport-related joint problem; articular cartilage defect; osteoarthritis; rheumatoid arthritis; wound healing; obesity; diabetes; insulinaemia; kidney disorder; mesangial cell function; Berger disease; nephropathy; celiac disease; dermatitis; Crohn disease; neuropathy; cardiac insufficiency disorder; peripheral neuropathy; diabetic peripheral neuropathy; autonomic neuropathy; reduced motility of the gastrointestinal tract; atony of the urinary bladder; post polio syndrome; Krabbe's disease; Charcot-Marie-Tooth disease; Fabry's disease; Tangier disease; Refsum's disease; probe; ss.
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Ferrara N,
        US2003049633-A1.
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THE AN EXPLORATION AND ADDRESS.

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PR 13-NOV-
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11-MAR-1998
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14-FEB-2000
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21-MAX-2000
22-MAY-2000
22-MAY-2000
23-MAY-2000
24-AUG-2000
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25-DEC-2000
27-MOV-2000
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2000WO-US004341.
2000WO-US005041.
2000WO-US006319.
2000WO-US007532.
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2000WO-US014941.
2000WO-US02328.
2000WO-US02328.
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2000WO-US02328.
2000WO-US0232678.
2000WO-US032678.
2000WO-US034268.
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22-MAY-1998
23-DEC-1998
24-MAY-1998
25-AUG-1999
11-MAR-1999
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12-MAR-1999
11-MAY-1999
12-MAR-1999
13-DEC-1999

98US-008463P 98US-008463P 98US-0084643P 98US-0084643P 98US-0084643P 98US-0085333P 98US-0085333P 98US-0085573P 98US-0085573P 98US-0085580P 98US-0085580P 98US-0085580P 98US-0085580P 98US-0085580P 98US-0085580P 98US-0085580P 98US-0085580P 98US-0085580P 98US-0085680P 98US-0086434P 98US-0086414P 98US-0086414P 98US-0086414P 98US-00105413 98US-00105413 98US-001068798P 98US-001068798P 98US-001068798P 98US-00118736 98US-0113621P 99US-0131445 99US-0131445 99US-0131445 99US-0131445 99US-0131445 99US-0131445 99US-0131445 99US-0131445 99US-0131452 99US-0131452 99US-0131452 99US-0131452 99US-0131452 99US-0131458 99US-013148 99US-013148 99US-013148 99US-013148 99US-013148 99US-013148 99US-013148 99US-013148 99US-013148 99US-

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98US-0084637P. 98US-0084639P. 98US-0084643P. 98US-008523P. 98US-0085338P. 98US-0085373P. 98US-008579P. 98US-0085580P. 98US-0085682P. 98US-0085682P. 98US-0085687P. 98US-0085687P. 98US-0085687P. 98US-0085687P. 98US-0085687P.	 ∠ A B B B B B B B B B B B B B B B B B B	98US-00040220. 98US-0078886P. 98US-0078910P. 98US-0078936P. 98US-0078939P.
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RESULT 2:
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03-NOV-1997;
13-NOV-1997;
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21-NOV-1997;
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20-DEC-2000;

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22-MAR-2001;

22-MAR-2001;

22-MAR-2001;

10-MAY-2001;

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10-JUN-2001;

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2000WS-U9034956.
2001WS-U90304956.
2001US-00816724.
2001US-00816920.
2001US-00854208.
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septic shock;
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98US-0085333P.
98US-0085333P.
98US-0085414P.
98US-0086439P.
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23-DEC-1998; 05-JAN-1999; 08-MAR-1999; 10-MAR-1999; 12-MAR-1999;

11-SEP-1998 07-OCT-1998 20-NOV-1998 20-NOV-1998 20-DEC-1998 23-DEC-1998

SEP-1998

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New PRO polypeptides useful for treating peripheral neuropathy, neuropathies associated with systemic disease such as post-polior AIDS-associated syndrome.
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98US-0094651P
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98US-010038P
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98US-01109314P
98US-0113621P
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1000WO-US014941
                                                                                                                                        KP, Botstein D, Desnoyers L, Eaton DL;
E, Fong S, Gao W, Gerber H, Gerritsen ME;
PJ, Grimaldi JC, Gurney AL, Hillan KJ;
Napier MA, Pan J, Paoni NF, Roy MA, Sheltwilliams PM, Wood WI;
                                         post-polio syndrome
                                                                                                                                                               Shelton
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ADC4422
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11-MAR-1998
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30-MAR-1998
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03-NOV-1997;
13-NOV-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic; ophthalmological; antiarthritic; ostcopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sporter-related joint problem; articular cartilage defects; ostcoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
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10-MAR-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US2003054986-A1
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l Similarity 88.2%;
l5; Conservative
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98US-0077632P-
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98US-0077641P-
98US-0077641P-
98US-0077641P-
98US-00778910P-
98US-0078910P-
98US-0078910P-
98US-0078936P-
98US-0079264P-
98US-0079264P-
98US-0079728P-
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Pred. No. 1.7e+03;
0; Mismatches 2
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26-APR-1999;
14-MAY-1999;
14-MAY-1999;
12-JUN-1999;
16-JUN-1999;
16-JUN-1999;
26-JUL-1999;
28-JUL-1999;
29-CCT-1999;
20-DEC-1999;
30-DEC-1999;
30-MAR-2000;
21-MAR-2000;
21-MAR-2000;
21-MAR-2000;
22-MAR-2000;
22-MAR-2000;
22-MAR-2000;
23-MAY-2000;
23-MAY-2000;
24-AUG-2000;
24-AUG-2000;
25-MAR-2001;
25-MAR-2001;
25-MAR-2001;
25-MAR-2001;
21-UN-2001;

Ferrara Goddard Kljavin Stewart

TA, A,

i AJ, Baker KP, N, Filvaroff E, A, Godowski PJ, IJ, Kuo SS, Napi PA, Tumas D, Wil

(GETH)

GENENTECH INC.

08-APR-1998 09-APR-1998 09-APR-1998 09-APR-1998 15-APR-1998 15-APR-1998 15-APR-1998 15-APR-1998 21-APR-1998 21-APR-1998 22-APR-1998 22-APR-1998 22-APR-1998 22-APR-1998 22-APR-1998 22-APR-1998 22-APR-1998 22-APR-1998 22-APR-1998 22-APR-1998 22-APR-1998 29-APR-1998 29-APR-1998 29-APR-1998 29-APR-1998 29-APR-1998 29-APR-1998 29-APR-1998 29-APR-1998 29-APR-1998 29-APR-1998 29-APR-1998 115-MAY-199	31-MAR-1998; 31-MAR-1998; 31-MAR-1998; 31-MAR-1998; 01-APR-1998; 01-APR-1998; 01-APR-1998; 01-APR-1998; 01-APR-1998;
98US-0081071P 98US-00811071P 98US-00811229P 98US-00818181P 98US-00818181P 98US-00819558P 98US-0082704P 98US-0082704P 98US-0082797P 98US-0082797P 98US-0082797P 98US-0082797P 98US-0082797P 98US-0082797P 98US-0083797P 98US-0083797P 98US-0083797P 98US-0083797P 98US-0083797P 98US-0083797P 98US-0083797P 98US-0083797P 98US-0083797P 98US-0084647P 98US-0084677P 98US-00855737P 98US-00855737P 98US-00855707P 98US-00856797P 98US-0085679P 98US-00856797P 98US-00856797P 98US-00856797P 98US-00856797P 98US-00856799	98US-0080105P 98US-0080107P 98US-0080165P 98US-0080194P 98US-0080327P 98US-0080328P 98US-0080334P 98US-0080334P
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RESULT 2
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20-JUN-2001;
29-JUN-2001;
09-JUL-2001;
30-JUL-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic; ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports -related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
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2001WO-US019692.

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2001WO-US021735.

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97US-0062250P

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98US-0077641P

98US-00778004P

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3-00168978.
3-0021141.
3-00187368.
3-0109304P.
3-0109304P.
3-00224855.
3-00202054.
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RESULT 2270
ADC63945
ID ADC6394
XX ADC6394
X
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Matches 15
  17-OCT-1997
03-NOV-1997;
13-NOV-1997;
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15; Conservative
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  97US-0062250P-
97US-006311P-
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97US-0063364P-
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98US-0077641P-
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98US-007978P-
98US-0080155P-
98US-00801327P-
98US-0080333P-
98US-0081070P-
98US-0081203P-
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  S-0077450P.
S-0077641P.
S-0077641P.
S-0077641P.
S-0078910P.
S-0078936P.
S-0079656P.
S-0079654P.
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S-00797658P.
S-00797689P.
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S-00801079P.
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Pred. No. 1.
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(GETH)

GENENTECH'

22-DEC-1998
23-DEC-1998
95-JAN-1999
905-MAR-1999
10-MAR-1999
11-MAR-1999
11-MAR-1999
11-MAR-1999
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11-MAR-2001
11-JUN-2001

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27-UTL-1999
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2001US-00886342.
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0
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Pred. No. 1.7e+03;
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                                 24;
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Gaps
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215-MAY-1998
22-MAY-1998
23-DEC-1998

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CCTCCGTCCCCTTCCTC

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RESULT 2271
ADC67045
ID ADC67045
XX ADC6704
XX ADC6704
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XX ADC6704
XX ADC6704
XX ADC6704
XX Vulnera
KW Luman E
XX Vulnera
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XX Vulnera
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XX Vulnera
KW Cissue
XX ISO031
XX 27-MAR
PF 30-JUL
XX 17-OCT
PR 11-MAR
PF 11-MAR
PR 11-MAR
PR 11-MAR
PR 11-MAR
PR 11-MAR
PR 11-MAR
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PR 20-MAR
PR 27-MAR
PR 27
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            30-JUL-2001;
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97US-0065311P

98US-0076364P

98US-0077641P

98US-007764P

98US-007764P

98US-007791P

98US-00778936P

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98US-00254465

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99US-002565686

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99US-002657213

99US-00284291

99US-00284291

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99US-00284291
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25-AUG-1999
25-AUG-1999
25-AUG-1999
25-AUG-1999
30-NOV-1999
30-DEC-1999
30-DEC-1900
21-MAR-2000
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30-MAY-2000
22-MAY-2000
22-MAR-2000
23-MAY-2000
24-JUL-2001
25-MAY-2001
21-MAY-2001
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21-JUN-2001
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2000WO-US000271
2000WO-US000276
2000WO-US000376
2000WO-US005341
2000WO-US005341
2000WO-US005341
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2000WO-US01526
2000WO-US020710
2000WO-US020710
2000WO-US020710
2000WO-US03426
2000WO-US03426
2001WS-US03426
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99WO-US031243
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99WO-US028565
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Ashkenazi AJ, Baker KP, Ferrara N, Filvaroff E, Goddard A, Godowski PJ, Kljavin IJ, Kuo SS, Napi Stewart TA, Tumas D, Wil KP, Botstein D, Desnoyers L, Eaton DL;
E, Fong S, Gao W, Gerber H, Gerritsen ME;
PJ, Grimaldi JC, Gurney AL, Hillan KJ;
Napier MA, Pan J, Paoni NF, Roy MA, Shelt
Williams PM, Wood WI; Shelton DL;

2003-596568/56.

Novel secreted and tra encoding them, useful muscle generation and secreted and transmembrane polypeptides and polynucleotides ing them, useful for treating wound healing, tissue growth and egeneration and regeneration, amyotrophic lateral sclerosis o

Example 114; SEQ Ħ g 472pp; English.

The invention describes an isolated secereted and transmembrane PRO polypeptide (I). PRO polypeptide such as PRO213, PRO700, PRO320 or PRO615 is useful in biotechnological and medical research, as well as in various industrial applications. PRO polypeptide such as PRO300, PRO866, PRO703, PRO708, PRO320, PRO351, PRO352, PRO381, PRO615, PRO618, PRO772, PRO853, PRO860 or PRO846 is useful for therapeutic purposes. PRO363 is useful therapeutically in vivo for lessening the effects of viral infection. PRO200 is useful for the treatment of wound healing, tissue growth and muscle generation and regeneration. PRO337 is useful for treating amyotrophic lateral sclerosis, neuropathy, AIDS-associated neuropathy or

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RESULT 2272
ADC69169
ID ADC6916
XX ADC6916
XX ADC6916
XX Human p
XX Homo sa
PN US20030
XX Homo sa
PN 13-NOV-PR 13-NOV-PR 13-NOV-PR 11-NAR-PR 11-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CC diabetic peripheral neuropathy. A polynucleotide (II) encoding (I) is CC useful for generating transgenic animals or knockout animals which are CC useful in the development and screening of therapeutically useful CC reagents, as probes for generating a pool of sequences for identifying CC related PRO coding sequences, and to construct hybridisation probes for CC mapping the gene which encodes the PRO and for the genetic analysis of CC individuals with genetic disorders, for recombinantly expressing (I) and CC protein electrophoresis purposes, and as therapeutic agents. (I) is a ccentral for screening compounds to identify those that mimic the PRO CC useful for screening compounds to identify those that mimic the PRO CC polypeptide (agonists) or prevent the effect of the PRO polypeptide (antagonists). (I) and (II) are useful for tissue typing. PRO antibodies are useful for rissue typing. PRO antibodies are useful for stassay of sample CC detecting its expression in specific cells, tissues or serum, and for CC affinity purification of PRO from recombinant cell culture or natural CC sources. This sequence represents a human seceretd and transmembrane PRO CC protein associated probe.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local S
Matches 15
 17-OCT-1997
03-NOV-1997
13-NOV-1997
21-NOV-1997
11-NAR-1998
11-NAR-1998
11-NAR-1998
11-NAR-1998
11-NAR-1998
12-NAR-1998
12-NAR-1998
20-NAR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic; ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
                                                                                                                                                                                                                                                                                                                                                                                      24-OCT-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                           03-APR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US2003064407-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human PRO 618 Taqman PCR probe.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  18-DEC-2003 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ch 0.3%;
l Similarity 88.2%;
15; Conservative
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97US-006331P.
97US-0065314P.
98US-0077632P.
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98US-0079689P

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98US-0080105P

98US-00801105P

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RESULT 2273
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01-JUN-2001;
05-JUN-2001;
14-JUN-2001;
19-JUN-2001;
20-JUN-2001;
29-JUN-2001;
30-JUL-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; 88; PCR; secreted protein; transmembrane protein; PRO; cytostatic; ophthalmological; antiarthritic; osteopathic; anti-related; vulnerary; auditory; tumour growth; retinal disorder; sports-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens.
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7 2001US-00886342.

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7 2001WO-US01066.

7 2001WO-US021066.

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98US-0079728P-
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Goddard
Kljavin
Stewart
The invention relates to an isolated PRO polypeptide (secreted or transmembrane protein) having at least 80% amino acid sequence identity to an amino acid sequence chosen from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal peptide, a PRO extracellular domain with or without its associated signal mentioned above, a vector comprising a PRO nucleic acid, a host cell comprising the vector and producing PRO, a chimaeric molecule comprising PRO fused to a heterologous amino acid sequence, and an anti-PRO antibody. PRO337 polypeptide is useful for detecting a PRO493 polypeptide signal polypeptide is useful for detecting PRO337
                                                                                                                                                                                                                                                                                                                 New isolated secreted and transmembrane PRO polypeptides, useful in preparation of a medicament for treating a condition responsive to t polypeptide, and as therapeutic agents e.g. vaccines.
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99WO-US005028
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99US-0113023P
99US-0113122P
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per H, Gerritsen ME;

AL, Hillan KJ;

LNF, Roy MA, Shelton
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RESULT 2:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting PRO1559 polypeptide, and PRO1559 polypeptide is useful for detecting PRO725, PRO700 or PRO739. PRO4993 polypeptide is useful for linking a bloactive molecule to a cell expressing PRO337 polypeptide. The bloactive molecule is the toxin, radiolabel, or an antibody. The bloactive molecule causes death of the cell. PRO337 polypeptide is useful for linking a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           16-OCT-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; PCR; secreted protein; transmembrane protein; PRO; cytostatic logical; antirheumatic; vulnerary; tumour growth; retinal disorder; sportes-related joint problem; cartilage defects; osteoarthritis; rheumatoid arthritis; ling; hearing loss; probe; in situ hybridisation.
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97US-0062250P

97US-006314P

97US-0063364P

97US-0063364P

98US-0077641P

98US-0077641P

98US-0077641P

98US-00778910P

98US-0078936P

98US-0078936P

98US-0078936P

98US-0079663P

98US-0079663P

98US-00797863P

98US-00797863P

98US-0079788P

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98US-0079788P

98US-0079788P

98US-008032P

98US-0080334P

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98US-0081071P
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Pred. No. 1.7e+03;
0; Mismatches 2
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   09-APR-1998
15-APR-1998
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30-APR-1998
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31-MAR-1999
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31-MAR
98US-0081203P

98US-0081219P

98US-00818119P

98US-008181819P

98US-008181819P

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98US-0084631P

98US-0084631P

98US-008681319P

98US-008681319P

98US-00868131P

98US-01308181P

98US-01308181P
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07-JUL-1999
28-JUL-1999
28-JUL-1999
29-OCT-1999
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30-DEC-1999
30-WAR-2000
11-FEB-2000
02-WAR-2000
02-WAR-2000
02-WAR-2000
01-DEC-2000
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Ferrara N,
Goddard A,
Kljavin IJ,
Stewart TA,
                       The invention relates to an isolated PRO polypeptide (secreted or transmembrane protein) having at least 80% amino acid sequence identity to an amino acid sequence chosen from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal peptide). Also included are nucleic acids encoding the PRO proteins mentioned above, a vector comprising a PRO nucleic acids (a host cell comprising the vector and producing PRO, a chimaeric molecule comprising PRO, fused to a heterologous amino acid sequence, and an anti-PRO antibody. PRO37 polypeptide is useful for detecting PRO4993 polypeptide. PRO735, PRO700 or PRO739 polypeptide is useful for detecting produce. PRO1559 polypeptide, and PRO1559 polypeptide is useful for detecting
                                                                                                                                                                                                                                                                                                                                                                                                                                                Novel secreted and transmembrane polypeptides, designated PRO polypeptides, and polynucleotides encoding them useful for treating kidney diseases, bone, cartilage and retinal disorders.
                                                                                                                                                                                                                                                                                                                                                                                                      Example 114; SEQ ID NO 573; 468pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2003-657582/62.
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Filvaroff E,
Godowski PJ,
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99WC-US010733

99WC-US0125252

99US-0142680P

99US-01425698P

99US-014625698P

99US-014625698P

99US-014625698P

99US-014625698

99WC-US028551

99WC-US028551

99WC-US031243

99WC-US031243

99WC-US031243

99WC-US031243

2000WC-US000277

2000WC-US0003565

2000WC-US0003565

2000WC-US0053841

2000WC-US005841

2000WC-US006319

2000WC-US014941

2000WC-
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Tumas D,
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Williams PM,
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Fong S, Gao W, Gerber H, Gerritsen ME;
Grimaldi JC, Gurney AL, Hillan KJ;
ier MA, Pan J, Paoni NF, Roy MA, Sheltonians PM, Wood WI;
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11-MAR-1998
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31-MAR-1998
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21-NOV-1997;
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2001US-00013929

-0079728P

-0079663P

-0078886P.

-0078004P

-0078939P -0078936P

3-0079786P. 3-0079920P. 3-0080105P. 3-0080107P. 3-0080165P. 3-0080194P. 3-0080327P.

5-0081049P. 5-0081070P. 5-0081071P. 5-0081271P. 5-0081203P. 5-0081229P. 5-0081817P. 5-0081819P.

S-0080328P. S-0080333P. S-0080334P.

(GETH

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Query Match
Best Local S
Matches 15
Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic ophthalmological; antiarthritic; osteopathic; anticheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
                                                                                                                                                                                               ADC41614 standard;
                                                                                                                                                                                                                                                                                              1244 CCTCCGTCCACGTCCTC 1260
                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                              CCTCCGTCCCCTTCCTC
                                                                                                618 Taqman
                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                (first entry)
                                                                                                                                                                                              DNA;
                                                                                                                                                                                                                                                                                                                                                           0.3%;
                                                                                               PCR probe
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                                                                                                                                                                                               ВP
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Pred. No. 1.7e
0; Mismatches
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                                                  vulnerary;
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                          S
                                                                                                                                  Query Match
Best Local S
Matches 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      26-JUL-1999
28-JUL-1999
28-JUL-1999
28-JUL-1999
29-OCT-1999
20-DEC-1999
20-DEC-1999
20-DEC-1999
30-DEC-1999
30-DEC-1900
24-FEB-2000
24-FEB-2000
21-MAR-2000
                                                                                                                        The invention relates to an isolated PRO polypeptide (secreted or transmembrane protein) having at least 80% amino acid sequence identity to an amino acid sequence chosen from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal peptide, a PRO extracellular domain with or without its associated signal peptide). Also included are nucleic acids encoding the PRO proteins mentioned above, a vector comprising a PRO nucleic acid), a host cell comprising the vector and producing PRO, a chimaeric molecule comprising PRO fused to a heterologous amino acid sequence, and an anti-PRO antibody. PRO337 polypeptide is useful for detecting a PRO4993 polypeptide in useful for detecting a PRO4993 polypeptide is useful for detecting a PRO4993 polypeptide is useful for detecting a PRO4993 polypeptide is useful for detecting a PRO4993 polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                Novel isolated secreted and transmembrane PRO polypeptides, useful in preparation of a medicament for treating a condition responsive to the polypeptide, and as therapeutic agents e.g. vaccines.
                                                                                                                                                                                                                                                                                                                                                     Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (GETH )
                   1244 CCTCCGTCCACGTCCTC
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                                                                15;
                                                              n 0.3%;
Similarity 88.2%;
15; Conservative
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Filvaroff E,
Godowski PJ,
Kuo SS, Napi,
Tumas D, Wil
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99US-014622P
99US-014622P
99WO-US028551
99WO-US031243
199WO-US031274
2000WO-US031274
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2000WO-US000376
2000WO-US00504341
2000WO-US005044
2000WO-US005044
2000WO-US0050841
2000WO-US0050841
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2000WO-US0050504
2000WO-US013705
2000WO-US014042
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2001WO-US014065
2001WO-US017090
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f E, Fong S, Gao W, Gerber H, Gerritsen ME;
PJ, Grimaldi JC, Gurney AL, Hillan KJ;
Napier MA, Pan J, Paoni NF, Roy MA, Shelto
, Williams PM, Wood WI;
                                                                                                                                                                                                                                                                                                                                                 573; 466pp; English.
                               1260
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                                                                Score 13.8; D
Pred. No. 1.7e
0; Mismatches
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98US-008644

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RESULT 2:
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ADC AXX
ADCC XXX
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31-NAR-1998
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           25-OCT-2001;
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 97US-0062250P-
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97US-0065311P-
98US-0077632P-
98US-0077641P-
98US-0077641P-
98US-0077641P-
98US-00778910P-
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 98US-0082704P.
98US-0082797P.
98US-0082897P.
98US-0083332P.
98US-0083332P.
98US-0083496P.
98US-0083496P.
98US-008354P.
98US-008354P.
98US-008354P.
98US-0084649P.
98US-0084649P.
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98US-0086538P.
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RESULT 2277
ADC62605
ID ADC62605 standard; D
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AC ADC62605;
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Matches 15
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02-DEC-1999 99WO-US030955
16-DEC-1999 99WO-US031243
30-DEC-1999 99WO-US031274
05-JAN-2000 2000WO-US000277
06-JAN-2000 2000WO-US00376
11-FEB-2000 2000WO-US003565
18-FEB-2000 2000WO-US004341
10-MAR-2000 2000WO-US00441
10-MAR-2000 2000WO-US006841
11-PAR-2000 2000WO-US006841
11-PAR-2000 2000WO-US006841
124-FEB-2000 2000WO-US006319
21-MAR-2000 2000WO-US006319
21-MAR-2000 2000WO-US006319
21-MAY-2000 2000WO-US013705
22-MAY-2000 2000WO-US014042
30-MAY-2000 2000WO-US015264
28-JUL-2000 2000WO-US015264
28-FEB-2001 2000WO-US03328
01-DEC-2000 2000WO-US03328
01-DEC-2000 2000WO-US034956
28-FEB-2001 2001WO-US034956
28-FEB-2001 2001WO-US034956
29-JUN-2001 2001WO-US017800
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20-JUN-2001 2001WO-US017800
20-JUN-2001 2001WO-US017806
09-JUL-2001 2001WO-US017865
                                                                                                                                                                                                                                                                                                                                            Ferrara
Goddard
Kljavin
Stewart
                                                                                                                                                 The invention describes an isolated secereted and transmembrane PRO polypeptide (I). PRO polypeptide such as PRO213, PRO700, PRO320 or PRO615 is useful in biotechnological and medical research, as well as in various industrial applications. PRO polypeptide such as PRO200, PRO866, PRO703, PRO708, PRO351, PRO352, PRO381, PRO615, PRO618, PRO772, PRO853, PRO860 or PRO846 is useful for therapeutic purposes. PRO363 is useful therapeutically in vivo for lessening the effects of viral infection. PRO200 is useful for the treatment of wound healing, tissue growth and muscle generation and regeneration. PRO337 is useful for treating amyotrophic lateral sclerosis, neuropathy, AIDS-associated neuropathy or
                                                                                                                                                                                                                                                                                Novel isolated secreted and transmembrane PRO polypeptides, useful preparation of a medicament for treating a condition responsive to polypeptide, and as therapeutic agents e.g. vaccines.
                                                                                                                                                                                                                                                                                                                          WPI;
                                                                                                                                                                                                                                                              Example 114; SEQ ID NO 573; 464pp; English.
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N, Filvaroff E, E
A, Godowski PJ, C
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TA, Tumas D, Will
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Fong S, Gao W, Gerber H, Gerritsen
Grimaldi JC, Gurney AL, Hillan KJ;
ier MA, Pan J, Paoni NF, Roy MA, Sh
lliams PM, Wood WI;
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No. 1.7e+03;
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Human; 89; PCR; secreted protein; transmembrane protein; PRO; cytostatic; ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sporter-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
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Homo sapiens.

US2003073624-A1 15-OCT-2001; 2001US-00978193

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29-APR-1998; 29-APR-1998; 29-APR-1998; 29-APR-1998;

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RESULT 2278
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11-FEB-2000
11-FEB-2000
12-MAR-2000
11-MAY-2000
22-MAY-2000
22-MAY-2000
23-MAY-2000
24-AUG-2000
25-MAY-2000
27-NOV-2000
20-DEC-2000
20-DEC-2000
21-MAR-2001
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Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic; ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary;
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l Similarity 88.2%;
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99US-00380137
99US-00380138
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98US-0083499P 98US-008354P 98US-008354P 98US-0083559P 98US-008441P 98US-0084460P 98US-0084660P 98US-0084633P 98US-0086633P 98US-0085333P 98US-0085533P 98US-0085570P 98US-0085573P 98US-0085570P 98US-0085700P 98US-0085711 98US-0085700P 98US-0085711 98US-0085700P 98US-0086414P 98US-0085711 98US-0086332P 98US-0085700P 98US-0085700P 98US-0085700P 98US-0086414P 98US-0086414P 98US-0086430P 98US-0086430P 98US-0086430P 98US-0086430P 98US-0086430P 98US-0086430P 98US-001687106 98US-001687106 98US-001687106 98US-001687106 98US-001687106 98US-001687109 98US-0017313250 99US-01311459 99US-013112557 99US-013195579 99US-013195579 99US-013195579 99US-013195579 99US-013195579 99US-01319559

29-APR-1998
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16-MAY-1998
17-MAR-1999
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8-APR-1998; 9-APR-1998; 9-APR-1998; 9-APR-1998; 9-APR-1998; 9-APR-1998; 9-APR-1998; 9-APR-1998; 9-APR-1998; 9-APR-1998; 9-APR-1998;	12-MAR-1998; 98US-0077791P. 13-MAR-1998; 98US-007804020 20-MAR-1998; 98US-007804020 20-MAR-1998; 98US-0078030P. 20-MAR-1998; 98US-0078030P. 20-MAR-1998; 98US-0078030P. 20-MAR-1998; 98US-0079964P. 20-MAR-1998; 98US-0079964P. 21-MAR-1998; 98US-0079964P. 21-MAR-1998; 98US-0079964P. 21-MAR-1998; 98US-0079964P. 21-MAR-1998; 98US-0079964P. 21-MAR-1998; 98US-007996P. 21-MAR-1998; 98US-007996P. 21-MAR-1998; 98US-007996P. 21-MAR-1998; 98US-0080105P. 21-MAR-1998; 98US-0080105P. 21-MAR-1999; 98US-0080105P. 21-MAR-1999; 98US-0080134P. 21-MAR-1999; 98US-0080128P. 21-MAR-1999; 98US-0080128P. 21-MAR-1999; 98US-0081129P. 21-MAR-1999; 98US-0081129P. 21-MAR-1999; 98US-0081129P. 21-MAR-1999; 98US-008119P. 21-MAR-1999; 98US-008119P. 21-MAR-1999; 98US-008125P. 21-MAR-1999; 98US-00	irti ig; 3.
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9US-0141037 9US-0141037 9US-0142680 9US-0145698 9US-0038013 9US-0038013 9US-0038013 9US-0038014 9US-0162506	98US-0085700P 98US-0086023P 98US-0086414P 98US-00864186P 98US-0087106P 98US-0087106P 98US-0087106P 98US-009105413 98US-009105413 98US-0091059P 98US-0091059P 98US-001063P 98US-00108778 98US-0110038P 98US-0110038P 98US-01187216 98US-01187216 98US-01137368 98US-01137368 98US-01137369 98US-01137369 98US-01137369 99US-01267713 99US-0126773P 99US-0126773P 99US-01310723 99US-0131145P 99US-0131145P 99US-0131145P 99US-01311753	8US-0083742 8US-0084316 8US-0084411 8US-0084598 8US-0084627 8US-0084637 8US-0084637 8US-0084633 8US-0084633 8US-0085333 8US-0085573 8US-0085573 8US-0085573

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RESULT 2279
ADE49607
ID ADE4960
XX ADE4960
XX ADE4960
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XX 29-JAN-
XX Human P
XX Human;
KW ophthal
KW auditor
KW articul
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Matches 15
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12-FEB-2000
21-FEB-2000
21-MAR-2000
21-MAR-2000
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23-MAY-2000
24-AUG-2000
25-MAY-2000
27-NOV-2000
20-DEC-2000
21-MAR-2001
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23-MAY-2001
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11-JUN-2001
                                                         Human; ss; PCR; secreted protein; transmembrane protein; PRO; cyto. ophthalmological; antiarthritic; osteopathic; antirheumatic; vulne; auditory; tumour growth; retinal disorder; sports-related joint prarticular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
   US2003096744-A1
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                                Homo sapiens.
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99WO-US031274
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2000WO-US000277
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2000WO-US005841
2000WO-US006319
2000WO-US006319
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Pred. No. 1.7e+03;
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28-JAN-2002;
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97US - 0062250P

97US - 006434P

97US - 00634P

98US - 007744P

98US - 007764P

98US - 007764P

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98US - 007791P

98US - 007965P

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98US - 008334P

98US - 008334P

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98US - 0083554P

98US - 008436P

98US - 0084441P

98US - 0084667P

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RESULT 2
ADE33661
ID ADE3
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21-JUN-2001
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  15-MAY-1998;
08-MAR-1999;
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2000WO-US005841

2000WO-US005841

2000WO-US008431

2000WO-US008431

2000WO-US014042

2000WO-US014941

2000WO-US015264

2000WO-US013328

2000WO-US023374

2000WO-US023374

2000WO-US023374

2000WO-US032374

2000WO-US032678

2000WO-US032678

2000WO-US032678

2000WO-US032678

2000WO-US034956

2001US-00816740

2001US-00816720

2001US-00854208

2001US-00886342

2001US-00886342

2001US-00886342

2001US-00886342

2001US-00918585
                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                    Taqman PCR probe.
  98US-0085689P.
99WO-US005028.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Baker
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      24
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ВÞ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 13.8;
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .7e+03;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  <u>.</u>
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07-MAY 1998 07-MAY 1998 13-MAY 1998 13-MAY 1998 15-MAY 1998 12-MAY 1998 22-MAY 1998 23-MAY 1998 24-MAY 1998 25-AUR 1999 10-NOV 1998 27-NOV 1999 28-APR 1999 21-APR 1999 21-APR

98US-0084639P 98US-0084640P 98US-0084640P 98US-0084640P 98US-0085339P 98US-0085339P 98US-008589P 98US-008589P 98US-008569P 98US-0085704P 98US-0086704P 98US-0086414P 98US-0086414P 98US-0086414P 98US-0086414P 98US-0086414P 98US-0086414P 98US-0086414P 98US-0086414P 98US-0086414P 98US-0016414P 99US-00164141 99US-00164141 99US-00164141 99US-00164141 99US-00164141 99US-00164141 99US-0016414 99US-00180114 99US-0018014 99US-00180114 99US-00180114 99US-00180114 99US-00180114 99US-00180114 99US-0018014 99US-0018018 99US-00

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Ct transmembrane protein) having at least 80% amino acid sequence dentity
Ct to an amino acid sequence chosen from 94 fully defined sequence as given
CC in the specification (including PRO lacking its associated signal
CC peptide). Also included are nucleic acids encoding the proteins
CC mentioned above, a vector comprising a PRO nucleic acid). A host cell
CC comprising the vector and producing PRO. a chimaeric molecule comprising
CC antibody. PRO337 polypeptide is useful for detecting a PRO493
CC polypeptide in a sample suspected of containing PRO493 polypeptide.
CC Similarly, PRO4939 polypeptide is useful for detecting a PRO493
CC polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting PRO493
CC polypeptide, and PRO1559 polypeptide is useful for Inking a
CC profit or PRO739. PRO4939 polypeptide is useful for Inking a
CC profit or PRO739 polypeptide is useful for Inking a
CC molecule is the toxin, radiolabel, or an antibody. The bicactive molecule
CC causes death of the cell expressing PRO493 polypeptide;
CC molecule is the toxin, radiolabel, or an antibody. The bicactive molecule
CC useful for linking a bicactive molecule
CC useful for linking a bicactive molecule
CC useful for linking a bicactive molecule
CC useful expressing PRO1559 polypeptide; and PRO1559 polypeptide is
CC useful expressing PRO1359 polypeptide; and PRO1559 polypeptide is
CC useful expressing PRO337 polypeptide; and PRO1559 polypeptide is
CC useful expressing PRO337 polypeptide; and PRO1559 polypeptide is
CC useful expressing PRO337 polypeptide; and PRO1559 polypeptide is
CC useful expressing PRO337 polypeptide; and PRO1559 polypeptide is
CC useful expressing PRO337 polypeptide; and PRO1559 polypeptide;
CC polypeptide or anti-PRO493 polypeptide;
CC polypeptide or anti-PRO337 polypeptide is useful for modulating the
CC polypeptide;
CC polypeptide is useful for modulating the profit is
CC polypeptide;
CC polypeptide is useful for modulating the profit is
CC polypeptide;
CC polypeptide is useful for modulating the profit is 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ferrara
Goddard
Kljavin
Stewart
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18-FEB-2000;
30-JUL-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New genes, and its encoded secreted and transmembrane polypeptides, useful for treating e.g. lung or breast tumors, osteoarthritis, rheumatoid arthritis, obesity, diabetes, hyperinsulinemia,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ashkenazi AJ, Baker KP,
Ferrara N, Filvaroff E,
Goddard A, Godowski PJ,
Kljavin IJ, Kuo SS, Naj
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 114; SEQ ID NO 573; 462pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           hypoinsulinemia or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2003-875641/81.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        28-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              invention relates to an isolated PRO polypeptide (secreted nsmembrane protein) having at least 80% amino acid sequence
                                           amplification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENENTECH INC
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99US-00380138.
2000WO-US004341.
2001US-00918585.
                                      present sequence is a Taqman PCR probe cation in certain tumour cell lines.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Napier MA, Po
Williams PM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Botstein D, Desnoyers L, Eaton DL;
Fong S, Gao W, Gerber H, Gerritse
Grimaldi JC, Gurney AL, Hillan KJ;
ier MA, Pan J, Paoni NF, Roy MA,
lliams PM, Wood WI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gerritsen ME;
                                                             investigate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Shelton DL
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25-AUG-1999;
18-FEB-2000;
30-JUL-2001;
                                                                                                                                                                                                                                                                                                                30-APR-1998;
08-MAR-1999;
23-JUN-1999;
                                                                                                                                                                                                                                                                                                                                                                                           Human; ss; PCR; secreted protein; transmembrane protein; PRO; cyto ophthalmological; arthritic; osteopathic; antirheumatic; vulne auditory; tumour growth; retinal disorder; sports-related joint prarticular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
                                                                                                                                                                                                                                                                                                                                                        30-OCT-2003
                                                                                                                                                                                                                                                                                                                                           18-OCT-2001;
                                                                                                                                                                                                                                                                                                                                                                    US2003203435-A1
                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                    Human PRO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADE16775 standard; DNA; 24
                                                                                                                                                                                                                                                                                                                                                                                                                                   618 Taqman PCR probe
                                                                                                                                                                                                                                                                                             98US-0083742P.

99WO-US005028.

99US-0141037P.

99US-00380138.

2000WO-US004341.

2001US-00918585.
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(GETH GENENTECH INC.

grant of the same

Ferrara Goddard Kljavin Stewart Ashkenazi AJ TA, J, Baker KP, Botstein D, Desnoyers L, Eaton DL; Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME; Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ; Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelt Tumas D, Williams PM; Wood WI; Shelton

WPI; 2003-875642/81.

useful for rheumatoid New hypoinsulinemia or wounds. and its encoded secreted and transmembrane polypeptides, treating e.g. lung or breast tumors, osteoarthritis, arthritis, obesity, diabetes, hyperinsulinemia,

Example 114; SEQ ID NO 573; 452pp; English.

CC transembrane protein; having at least 80% amino acid sequence identity
CC to an amino acid sequence chosen from 94 fully defined sequences as given
CC in the specification (including PRO lacking its associated signal
CC peptide, a PRO extracellular domain with or without its associated signal
CC mentioned above, a vector comprising a PRO nucleic acid), a host cell
CC comprising the vector and producing PRO, a chimaeric molecule comprising
CC PRO fused to a heterologous amino acid sequence, and an anti-PRO
CC polypeptide in a sample suspected of containing PRO4993 polypeptide.
CC Similarly, PRO493 polypeptide is useful for detecting a PRO4993
CC polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting PRO337
CC polypeptide, and PRO1559 polypeptide is useful for detecting PRO1559 polypeptide, and PRO1559 polypeptide is useful for detecting PRO1559.
CC pro7055, PRO700 or PRO739. PRO4993 polypeptide is useful for inking a CC bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive molecule is the toxin, radiolabel, or an antibody. The bioactive molecule causes death of the cell. PRO337 polypeptide is useful for linking a CC pro700 or PRO739 polypeptide are useful for linking a bioactive molecule for a cell expressing PRO493 polypeptide; and PRO1559 polypeptide; and PRO1559 polypeptide is useful for linking a cell expressing PRO337 polypeptide; and PRO1559 polypeptide is useful for linking a cell expressing PRO337 polypeptide; and PRO1559 polypeptide is useful for linking a cell expressing PRO337 polypeptide; and PRO1559 polypeptide is useful for linking a polypeptide; and PRO337
CC polypeptide is useful for modulating at least one biological activity of the cell expressing PRO339 polypeptide; PRO337
CC polypeptide or anti-PRO493 polypeptide is useful for modulating the biological activity of the cell expressing PRO339 polypeptide; PRO337 The invention relates to an isolated PRO polypeptide (secreted or

밁 S

1244

CCTCCGTCCACGTCCTC

1260 0,

Query Match Best Local :

Similarity

0.3%; 14

Score 13.8; Pred. No. 1

1.7e+03 DB 1; 0 Other;

Length 24; Indels

0,

Gaps

0

Mismatches

Sequence

24 B₽;

1 A;

C; 1

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RESULT 2281 ADE16775

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RESULT 2282
ADD73390
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Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 22-MAY-1998;
22-DEC-1998;
05-JAN-1999;
                                                                                                                                                                                                                              Ferrara
Goddard
Kljavin
                                                                   New PRO genes and encoded secreted and transmembrane polypeptides, useful for treating e.g. lung or breast tumors, osteoarthritis, rheumatoid arthritis, obesity, diabetes, hyperinsulinemia, hypoinsulinemia or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic; ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRO700 or PRO739 polypeptide or an anti-PRO1559 polypeptide is useful for modulating the biological activity of the cell expressing PRO1559 polypeptide or anti-PRO725, anti-PRO700 or anti-PRO739 polypeptide is useful for modulating the biological activity of the cell expressing PRO725, PRO700 or PRO739 polypeptide. The polypeptides are useful for inhibiting tumour growth, retinal disorders, sports-related joint problems, articular cartilage defects, osteoarthitis or rheumatoid arthritis, wound healing and hearing loss in mammals. The present sequence is a Tagman PCR probe used investigate PRO gene amplification in certain tumour cell lines.
    Example 114;
                                                                                                                                                                                                                                                                                                                                                                                                                                                          08-MAR-1999;
12-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     30-OCT-2003
                                                                                                                                                                                                                                                                                                                                                                                                            25-AUG-1999;
18-FEB-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         18-OCT-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29-JAN-2004 (first entry)
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                                                                                                                                                                                                                                                                                                                                             (GETH )
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                                                                                                                                                             2003-875643/81.
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                                                                                                                                                                                                                                                                                                                                    GENENTECH INC.
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                                                                                                                                                                                                                            i AJ, Baker KP,
N, Filvaroff E,
A, Godowski PJ,
IJ, Kuo SS, Nap
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                                                                                                                                                                                                                                                                                                                                                                                  98US-0086414P.
99US-0113296P.
99WO-US000106.
99WO-US005028.
99US-00284291.
99US-00380138.
2000WO-US004341.
2001US-00918585.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BP; 1 A; 14 C; 1 G; 8 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
    SEQ ID NO
                                                                                                                                                                                                       Tumas D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2001US-00145129
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                                                                                                                                                                                                       Napier MA, P
, Williams PM,
  573;
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                                                                                                                                                                                                                         Botstein D, Desnoyers L, Eaton DL;
Fong S, Gao W, Gerber H, Gerritsen ME;
Grimaldi JC, Gurney AL, Hillan KJ;
ier MA, Pan J, Paoni NF, Roy MA, Shelt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ВP
453pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 13.8; D
Pred. No. 1.7e
0; Mismatches
                                                                                                                                                                                                         Wood WI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1.7e+03
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length
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                                                                                                                                                                                                                                Shelton
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
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Ct transmembrane protein) having at least 80% amino acid sequence identity cto an amino acid sequence chosen from 94 fully defined sequences as given ct in the specification (including PRO lacking its associated signal peptide). Also included are nucleic acids encoding the proteins mentioned above, a vector comprising a PRO uncleic acid), a host cell comprising the vector and producing PRO, a chimaeric molecule comprising PRO proteins an entribody. PRO337 polypeptide is useful for detecting a PRO493 polypeptide is useful for detecting PRO393 polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting PRO337 polypeptide, and PRO1559 polypeptide is useful for detecting PRO337 polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting PRO337 polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting PRO337 polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting PRO337 polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for linking a bioactive molecule to a cell expressing PRO337 polypeptide. PRO337 polypeptide is useful for linking a bioactive molecule is the toxin, radiolabel, or an antibody. The bioactive molecule co a cell expressing PRO337 polypeptide; PRO725, PRO700 or PRO739 polypeptide, PRO337 polypeptide is useful for linking a bioactive molecule co a cell expressing PRO337 polypeptide; PRO725, PRO700 or PRO739 polypeptide, PRO339 polypeptide is useful for modulating the biological activity of the cell expressing PRO337 polypeptide is useful for modulating the biological activity of the cell expressing PRO337 polypeptide is useful for modulating the biological activity of the cell expressing PRO725, PRO700 or anti-PRO735 polypeptide where the cell expressing PRO337 polypeptide is useful for modulating the biological activity of the cell expressing PRO337 polypeptide. PRO735 polypeptide is useful for modulating the biological activity of the cell expressing PRO3055 polypeptide. PRO700 or anti-PRO735 polypeptide. PRO700 or anti-PRO735 poly
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Sequence 24 BP; 1 A; 14 C; 1 G; 8 T; 0 U; 0 Other;

밁 S Query Match Best Local S Matches 15 1244 ccrccerccacerccrc 1260 4 Similarity Conservative 88.2%; 20 <u>,,</u> Score 13.8; DB 1; Pred. No. 1.7e+03; Mismatches Length 24; Indels 0 Gaps 0

ADD72748 standard; 29-JAN-2004 618 (first entry Taqman PCR probe. DNA; 24 뫄

PRO

CXSSXTTTTXXXXII

RESULT 2283
ADD72748
ID ADD7274
XX
AC ADD7274
XX
DT 29-JANXX
DT 29-JANXX
W Human P
XX
W ophthal
KW ophthal
KW auditox
KW articul
KW wound P
XX
OS Homo sa
XX
OS HOM
XX
O Human; 88; PCR; secreted protein; transmembrane protein; PRO; cytostatic ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; 19-OCT-2001; 2001US-00164929. 16-OCT-2003. Homo sapiens. healing; hearing loss; probe; Bitu

invention

relates to an isolated PRO polypeptide (secreted

30-MAR-1998;

98US-0079920P

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07-OCT-1998;
20-NOV-1998;
05-JAN-1999;
10-MAR-1999;
11-MAY-1999;
11-MAY-1999;
11-MAY-1999;
12-DEC-1999;
13-DEC-1999;
13-DEC-1999;
13-DEC-1999;
13-DEC-1999;
13-DEC-1999;
13-DEC-1999;
13-DEC-1999;
13-DEC-1999;
13-DEC-1999;
14-DEC-1999;
16-DEC-1999;
17-MAY-2000;
11-FEB-2000;
11-FEB-2000;
11-FEB-2000;
11-MAR-2000;
11-MAR-2000;
11-MAY-2000;
11-MAY-2001;
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2000WO-US000279.
2000WO-US000276.
2000WO-US000376.
2000WO-US005841.
2000WO-US005841.
2000WO-US006319.
2000WO-US006319.
2000WO-US013705.
2000WO-US014941.
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98WO-US024855

99WO-US00106

99WO-US005028

99WO-US008313

99WO-US010733

99WO-US01252

99US-00380138

99WO-US028313

99WO-US028313

99WO-US028555

99WO-US038055
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                                                                                                                                                                                                                                                                                                                                                                                                         INC.
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Goddard Kljavin New secreted and transmembrane PRO nucleic acids and polypeptides, useful for stimulating the release of tumor necrosis factor alpha from human blood and stimulating the proliferation of differentiation of chondrocyte WPI; Ferrara 2003-852598/79 Į, », TA, Godowski PJ Kuo SS, N Filvaroff E, Tumas KP, Botstein D, Desnoyers L, Eaton DL; E, Fong S, Gao W, Gerber H, Gerritse PJ, Grimaldi JC, Gurney AL, Hillan KJ; Napier MA, Pan J, Paoni NF, Roy MA, Williams PM, Wood WI; Eaton DL; Gerritsen ME; Shelton 멅

Example 114; SEQ ID NO 573; 462pp; English

The invention relates to an isolated PRO polypeptide (secreted or transmembrane protein) having at least 80% amino acid sequences as given to an amino acid sequence chosen from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal peptide, a PRO extracellular domain with or without its associated signal peptide). Also included are nucleic acids encoding the PRO proteins mentioned above, a vector comprising a PRO nucleic acid), a host cell comprising the vector and producing PRO, a chimaeric molecule comprising PRO fused to a heterologous amino acid sequence, and an anti-PRO antibody. PRO337 polypeptide is useful for detecting a PRO493 polypeptide in a sample suspected of containing PRO493 polypeptide. PRO735, PRO700 or PRO739 polypeptide is useful for detecting PRO337 polypeptide, and PRO1559 polypeptide is useful for detecting

ភពៈភិពិសិក្សិក ស្ត្រិក PRO725, PRO700 or PRO739. PRO4993 polypeptide is useful for linking s in þ

Sequence 24 BP; 1 A; 14 C; 1 G; 8 T; 0 U; 0 Other;

Query Match Best Local Matches 15; Similarity Conservative 0.3%; , , Score Pred. Mismatches 13.8; No. 1. 1.7e+03 DB 2 Length Indels 24 0, Gaps 0

밁 S RESULT 2284 1244 CCTCCGTCCACGTCCTC 1260 4 20

ADE17399 standard; DNA; 24 ₽P

29-JAN-2004 (first entry)

Human PRO 618 Taqman PCR probe.

Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; healing; hearing loss; probe; in situ hybridisation. cytostatic;

Homo sapiens

US2003203433-A1

18-OCT-2001; 2001US-00145016

06-MAY-1998; 22-DEC-1998; 05-JAN-1999; 08-MAR-1999; 12-APR-1999; 25-AUG-1999; 18-FEB-2000; 30-JUL-2001; 98US-0084414P. 99US-0113296P. 99WO-US000106. 99WO-US005028. 99US-00284291. 99US-00380138. 2000WO-US004341. 2001US-00918585.

GENENTECH INC.

DELTA PRESENTATION OF THE Ashkenazi i Ferrara N, Goddard A, Ą, AJ, Baker KP, Filvaroff E, Godowski PJ, Botstein Fong S, Grimaldi Gao JC, Desnoyers L, b W, Gerber H, Gurney AL, H Eaton レレ, (, Gerritsen ) 뙲

arthritie;

problem;

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RESULT 2285
ADF47413
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention relates to an isolated PRO polypeptide (secreted or corransembrane protein) having at least 80% amino acid sequence identity controlled in the specification (including PRO lacking its associated signal peptide). Also included are nucleic acids encoding the proteins of peptide, a PRO extracellular domain with or without its associated signal comparising in comprising PRO nucleic acids encoding the PRO proteins peptide). Also included are nucleic acids encoding the PRO proteins comprising PRO antibody. PRO337 polypeptide is useful for detecting a PRO extracellular comprising PRO antibody. PRO337 polypeptide is useful for detecting a PRO493 polypeptide. PRO700 or PRO739 polypeptide is useful for detecting PRO337 polypeptide. PRO700 or PRO739 polypeptide is useful for detecting PRO337 polypeptide, PRO700 or PRO739 polypeptide is useful for detecting PRO337 polypeptide. PRO700 or PRO739 polypeptide is useful for detecting PRO325. PRO700 or PRO739. PRO4933 polypeptide is useful for detecting PRO325. PRO700 or PRO739. PRO4933 polypeptide is useful for inking a bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive molecule is the toxin, radiolabel, or an antibody. The bioactive molecule coa cell expressing PRO4933 polypeptide. The bioactive molecule coacell expressing PRO337 polypeptide is useful for linking a bioactive molecule to a cell expressing PRO337. PRO4933 polypeptide is useful for molecule coacell expressing PRO337 polypeptide is useful for molecule pro337 polypeptide. PRO337 polypeptide is useful for molecule pro337 polypeptide is useful for molecule pro337 polypeptide is useful for molecule pro337 polypeptide. PRO4933 polypeptide pro337 polypeptide is useful for molecule pro337 polypeptide pro339 polypeptide pro339 polypeptide pro339 polypeptide pro339 polypeptide pro339 polypeptide pr
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Stewart
Human; 88; PCR; secreted protein; transmembrane protein; PRO; cytostatic; ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary;
                                                                  Human PRO
                                                                                                                                                                                                   ADF47413 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 24
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                                                                                                              12-FEB-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                          1244 CCTCCGTCCACGTCCTC 1260
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                                                                618 Taqman PCR probe.
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Wood WI;
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                                                                                                                   Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic; ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sportes-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
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16-JUN-1998
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2001US-0013927. 97US-0062250P. 97US-0064249P. 97US-0065311P. 97US-0065311P. 98US-0077641P. 98US-0077643P. 98US-0077643P. 98US-0079656P. 98US-0079668P. 98US-0079668P. 98US-0079668P. 98US-0080105P. 98US-0080105P. 98US-0080127P. 98US-0081195P. 98US-00811203P. 98US-00811203P. 98US-00812700P. 98US-0081259P. 98US-0082797P. 98US-0082569P. 98US-0082569P. 98US-00833554P. 98US-0083496P. 98US-0083559P. 98US-0083559P. 98US-0083559P. 98US-0084414P. 98US-0084459P. 98US-0084637P. 98US-0084637P. 98US-0084637P. 98US-0084639P.
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13-MAY 1998; 13-MAY 1998; 13-MAY 1998; 15-MAY 1998; 22-MAY 1998; 23-JUN 1998; 24-MAY 1998; 25-JUN 1999; 26-JUN 1999; 27-MAY 1999; 28-APR 1999; 28-APR 1999; 28-APR 1999; 29-OCT 1999; 29-OCT 1999; 20-DEC 1999; 21-MAR 2000; 22-MAY 2000; 23-MAY 2000; 24-AUG 2000; 24-AUG 2000; 25-FEB 2000; 26-JUN 2000; 27-MAY 2000; 28-FEB 2000; 29-FEB 2000; 21-MAR 2000; 21-MAR 2000; 21-MAR 2000; 22-MAY 2000; 22-MAY 2000; 23-JUN 2000; 24-AUG 2000; 25-FEB 2000; 26-JUN 2000; 27-MAY 2000; 28-FEB 2000; 29-FEB 2000; 20-DEC 2000; 20-DEC 2000; 21-MAR 2000; 22-MAY 2000; 23-MAY 2000; 24-AUG 2000; 25-FEB 2000; 26-JUN 2000; 27-MAR 2000; 28-FEB 2000; 29-FEB 2000; 20-DEC 2000; 20-DEC 2000; 20-DEC 2000; 21-MAR 2000; 22-MAY 2000; 23-JUN 2000; 24-AUG 2000; 25-FEB 2000; 26-JUN 2000; 27-MAR 2000; 28-FEB 2000; 29-FEB 2000; 20-DEC 2000; 20-DEC 2000; 20-DEC 2000; 21-MAR 2000; 22-MAY 2000; 23-MAR 2000; 24-AUG 2000; 24-AUG 2000; 25-MAR 2000; 26-JUN 2000; 27-MAR 2000; 28-FEB 2000; 29-MAR 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000; 2000
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Matches 15; Conserv
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Ferrara N,
Goddard A,
Kljavin IJ,
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20-JUN-2001;
29-JUN-2001;
09-JUL-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     peptide). Also included are nucleic acids encoding the PRO proteins mentioned above, a vector comprising a PRO nucleic acid), a host cell comprising the vector and producing PRO, a chimaeric molecule comprising PRO, a chimaeric molecule comprising PRO fused to a heterologous amino acid sequence, and an anti-PRO antibody. PRO337 polypeptide is useful for detecting a PRO4993 polypeptide in a sample suspected of containing PRO4993 polypeptide. Similarly, PRO4993 polypeptide is useful for detecting PRO337 polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting PRO359 polypeptide, and PRO1559 polypeptide is useful for detecting PRO725, PRO700 or PRO739 polypeptide is useful for detecting PRO725, PRO700 or PRO739 polypeptide is useful for detecting PRO725, PRO700 or PRO739 polypeptide is useful for detecting PRO725, PRO700 or PRO739 polypeptide is useful for detecting PRO725, PRO700 or PRO739 polypeptide is useful for detecting PRO725, PRO700 or PRO739. PRO4993 polypeptide is useful for detecting PRO725, PRO700 or PRO739. PRO4993 polypeptide is useful for detecting PRO725, PRO700 or PRO739. PRO4993 polypeptide is useful for detecting PRO725, PRO700 or PRO739.
                                                                                                                                                                                         Human; 88; PCR; secreted protein; transmembrane protein; PRO; cytostati ophthalmological; antiarthritic; osteopathic; antireleumatic; vulnerary; auditory; tumour growth; retinal disorder; sports-related joint problem articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to an isolated PRO polypeptide (secreted or transmembrane protein) having at least 80% amino acid sequence identity to an amino acid sequence chosen from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal peptide, a PRO extracellular domain with or without its associated signal peptide, a PRO extracellular domain with or without its associated signal
 29-APR-1998;
08-MAR-1999;
                                                                                                                                                                                                                                                                                                        Human PRO 618
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                                                  25-OCT-2001; 2001US-00013916
                                                                                                                          US2003206915-A1
                                                                                                                                                           Homo sapiens
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Filvaroff E,
Godowski PJ,
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2001WO-US017800.
2001WO-US019692.
2001WO-US021066.
2001WO-US021735.
2001US-00918585.
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98US-0083554P
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Williams PM,
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Fong S, Gao W,
Grimaldi JC, Gu
pier MA, Pan J,
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W, Gerber H, Gerritse
Gurney AL, Hillan KJ;
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Paoni NF,
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RESULT 2288 ADI61250 ID ADI6125

ADI61250 standard;

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1244 CCTCCGTCCACGTCCTC

1260 20

Query Match Best Local S Matches 15

Similarity

0.3%;

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Conservative

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Mismatches 13.8; No. 1

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Length Indels

24;

Sequence 24 BP; 1 A; 14 C; 1 G; 8.T; 0 U; 0 Other;

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CC to an amino acid sequence chosen from 94 fully defined sequences as given CC in the specification (including PRO lacking its associated signal CC peptide), a PRO extracellular domain with or without its associated signal CC peptide). Also included are nucleic acids encoding the pRO proteins CC mentioned above, a vector comprising a PRO nucleic acid), a host cell comprising the vector and producing PRO, a chimaeric molecule comprising CC pRO fused to a heterologous amino acid sequence, and an anti-PRO CC polypeptide in a sample suspected of containing PRO4993 polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting a PRO4993 CC polypeptide, PRO725, PRO700 or PRO739 polypeptide is useful for detecting PRO337 CC polypeptide, PRO700 or PRO739. PRO700 or PRO339 polypeptide is useful for cletcting PRO725, PRO700 or PRO739. PRO700 or PRO339 polypeptide is useful for linking a contactive molecule to a cell expressing PRO337 polypeptide is useful for linking a contactive molecule to a cell expressing PRO337 polypeptide; and PRO359 polypeptide; PRO725, PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule to a cell expressing PRO4933 polypeptide; and PRO1559 polypeptide is useful for linking a contactive molecule to a cell expressing PRO4933 polypeptide; and PRO1559 polypeptide is useful for linking a bioactive molecule to a cell expressing PRO493 polypeptide; and PRO1559 polypeptide is useful for modulating at least one biological activity of the cell expressing PRO3725, CC polypeptide; pRO337 polypeptide, pRO4933 polypeptide is useful for modulating the pro735, and PRO739 polypeptide or anti-PRO375, cc polypeptide; and PRO1559 polypeptide; pRO725, cc polypeptide; and PRO359 polypeptide; pRO725, cc polypeptide; and PRO359 polypeptide; pRO739 polypeptide; pRO739 polypeptide; pRO739 polypeptide; pRO739 polypeptide; pRO739 polypeptide; pRO739 polypeptide; pRO3700 or anti-PRO39 polypeptide; pRO337 polypeptide; pRO337 polypeptide; pRO339 polypeptide; pRO339 polypeptide; pRO339 polypepti
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25-AUG-1999;
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Stewart
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Goddard
                                          osteoarthritis or rheumatoid arthritis, wound healing mammals. The present sequence is a Tagman PCR probe us gene amplification in certain tumour cell lines.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New secreted and transmembrane PRO polypeptides and n in gene therapy for treating obesity or diabetes, in mapping, and as chromosome markers in tissue typing.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to an isolated PRO transmembrane protein) having at least 80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 114; SEQ
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Filvaroff E,
Godowski PJ,
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99US-00380138.
2000WO-US004341.
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Tumas D,
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, Williams PM,
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Fong S, Gao W, Gerber H, Gerritsen ME;
Grimaldi JC, Gurney AL, Hillan KJ;
ier MA, Pan J, Paoni NF, Roy MA, Shelt
lliams PM, Wood WI;
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                                                                                    hearing loss
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Ferrara N,
Goddard A,
Kljavin IJ,
Stewart TA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10-JAN-2000

11-FEB-2000

18-FEB-2000

24-FEB-2000

10-MAR-2000

11-MAR-2000

21-MAR-2000

21-MAR-2000

21-MAY-2000

22-MAY-2000

22-MAY-2000

22-MAY-2000

24-AUG-2000

24-AUG-2000

24-AUG-2000

25-MAY-2001

25-MAY-2001

25-MAY-2001

25-MAY-2001

21-JUN-2001

21-JUN-2001
                                                                                                                                                                                                                                                                        The invention relates to an isolated PRO polypeptide (secreted or transmembrane protein) having at least 80% amino acid sequence as given to an amino acid sequence chosen from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal peptide, a PRO extracellular domain with or without its associated signal peptide). Also included are nucleic acids encoding the PRO proteins mentioned above, a vector comprising a PRO nucleic acid), a host cell comprising the vector and producing PRO, a chimaeric molecule comprising PRO fused to a heterologous amino acid sequence, and an anti-PRO antibody. PRO337 polypeptide in a sample suspected of containing PRO4993 polypeptide. Similarly, PRO4993 polypeptide is useful for detecting PRO337
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New isolated PRO polypeptide e.g. PRO200, PRO322, PRO540, PRO846 or PRO617 polypeptide, useful for treating sight loss due to retinitis pigmentosum by enhancing retinal neural cells survival.
                 Secreted
                                           09-SEP-2003
                                                                                                ACD42906
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example
                                                                                                                                                                                   1244 CCTCCGTCCACGTCCTC
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                                                                                                                                                                                                                       l Similarity
15; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              114; SEQ
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                 and
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N, Filvaroff E,
A, Godowski PJ,
IJ, Kuo SS, Nap
TA, Tumas D, Wi
                                                                                                 standard;
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2000WO-US004341.
2000WO-US005841.
2000WO-US005841.
2000WO-US006319.
2000WO-US007532.
2000WO-US014043.
2000WO-US014044.
2000WO-US014941.
2000WO-US015264.
2000WO-US03328.
2000WO-US03328.
2000WO-US03328.
2000WO-US03328.
2000WO-US034956.
2001WO-US034956.
2001WO-US034956.
2001WO-US01705.
2001WO-US01705.
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2001WO-US01705.
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2001WO-US01705.
2001WO-US01705.
                                                                                                                                                                                                                         Conservative
               transmembrane
                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                              ij
                                                                                                 DNA;
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f E, Fong S, Gao W, Gerber H, Gerritsen ME;
PJ, Grimaldi JC, Gurney AL, Hillan KJ;
Napier MA, Pan J, Paoni NF, Roy MA, Shelt,
Williams PM, Wood WI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                              573; 465pp;
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               protein associated
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                                                                                                                                                                                                                       Mismatches
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               oligonucleotide
                                                                                                                                                                                                                                                Length
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  31 MAR-1998

31 MAR-1998

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97US-006364P

98US-0077632P

98US-0077641P

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98US-0077891P

98US-0078936P

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98US-0079663P

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98US-0079664P

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98US-0083335P

98US-0083359P

98US-008355P

98US-008355P
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RESULT 2290
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Matches 15
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11-FAA
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Ferrara N,
                                                Human; 88; PCR; secreted protein; transmembrane protein; PRO; cytostatic; ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sporter-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
                                                                                                                                                                                                          Human PRO
                                                                                                                                                                                                                                                                                                                    ADE48907;
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     Homo sapiens.
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, Filvaroff
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99WO-US031274
2000WO-US031274
2000WO-US000277
2000WO-US000376
2000WO-US0003465
2000WO-US005841
2000WO-US005841
2000WO-US005841
2000WO-US008439
2000WO-US014941
2000WO-US014941
2000WO-US014941
2000WO-US015264
2001WS-00816744
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Conservative
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                                                                                                                                                                                                                                                                                                                                                                       DNA;
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Pred. No. 1.7e
0; Mismatches
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W, Gerber
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Gerritsen
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06-MAY 1998
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13-MAY 1998
15-MAY 1998
16-JUN 1999
17-MAR 1998
17-MAR 1999
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98US-0083742P 98US-008446P 98US-008441P 98US-008463PP 98US-008463PP 98US-008463PP 98US-0085533PP 98US-0085533PP 98US-0085533PP 98US-0085592PP 98US-0085592PP 98US-0085697PP 98US-0085697PP 98US-0085697PP 98US-0086414PP 98US-0086414PP 98US-0086414PP 98US-0086414PP 98US-0086414PP 98US-0086414PP 98US-001054113 98US-00105413 98US-00105413 98US-00105413 98US-00105413 98US-001073 98US-001073 99US-00134287PP 99US-00134287PP 99US-00134287PP 99US-0013632PP 99US-001363313 99WO-US001038

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Ashkenazi AJ, Baker KP,
Ferrara N, Filvaroff E,
Goddard A, Godowski PJ,
Kljavin IJ, Kuo SS, Napi
Stewart TA, Tumas D, Wil
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02-DEC-1999
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03-DEC-1999
30-DEC-1999
30-MAR-2000
11-FEB-2000
24-FEB-2000
21-MAR-2000
21-MAR-2000
21-MAR-2000
30-MAR-2000
30-MAX-2000
31-MAX-2000
The invention relates to an isolated PRO polypeptide (secreted or transmembrane protein) having at least 80% amino acid sequence identity to an amino acid sequence chosen from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal peptide, a PRO extracellular domain with or without its associated signal peptide). Also included are nucleic acids encoding the PRO proteins mentioned above, a vector comprising a PRO nucleic acid), a host cell comprising the vector and producing PRO, a chimaeric molecule comprising PRO fused to a heterologous amino acid sequence, and an anti-PRO antibody. PRO337 polypeptide is useful for detecting a PRO4993
                                                                                                                                                                                                                                                         New isolated nucleic acid encoding a PRO polypeptide, e.g. PRO4993 PRO337, useful in molecular biology, chromosome and gene mapping, generating antisense RNA and DNA, and in gene therapy.
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                                                                                                                                                                                                                       Example
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                                                                                                                                                                                                                       114;
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2000WO-US000377
2000WO-US0003565
2000WO-US0050441
2000WO-US0050441
2000WO-US005041
2000WO-US007532
2000WO-US007532
2000WO-US007434
2000WO-US014941
2000WO-US014941
2000WO-US015264
                                                                                                                                                                                                                     SEQ ID NO 573; 460pp; English.
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2001WO-US021735
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99WO-US012252
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99WO-US028313
99WO-US028565
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99WO-US031095
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99WO-US005190
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Williams PM,
                                                                                                                                                                                                                                                                                                                                                                           Botstein D, Desnoyers L, Eaton DL;
Fong S, Gao W, Gerber H, Gerritsen ME;
Grimaldi JC, Gurney AL, Hillan KJ;
ier MA, Pan J, Paoni NF, Roy MA, Shelt,
lliams PM, Wood WI;
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Best Local
03-NOV-1997;
13-NOV-1997;
21-NOV-1997;
10-MAR-1998;
11-MAR-1998;
11-MAR-1998;
11-MAR-1998;
12-MAR-1998;
13-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                         Human; ss; PCR; secreted protein; transmembrane protein; PRO; cyto ophthalmological; antiarthritic; osteopathic; antirheumatic; vulne auditory; tumour growth; retinal disorder; sports-related joint prarticular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
                                                                                                                                                                                17-OCT-1997;
                                                                                                                                                                                                                                                                                                                                      Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human
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97US-0062250P
97US-0064249P
97US-0065311P
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GODWSKI P J.
GIRNALDI J C.
GURNEY A L.
HILLAN K J.
HILLAN K J.
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Gaps

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New PRO nucleic acid, useful for treating e.g. lung or breast tumors, osteoarthritis, rheumatoid arthritis, obesity, diabetes, hyperinsulinemia, hypoinsulinemia or wounds.
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, Williams PM,
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Fong S, Gao W, Gerber H, Gerritsen
Grimaldi JC, Gurney AL, Hillan KJ;
ier MA, Pan J, Paoni NF, Roy MA, Sh
lliams PM, Wood WI;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; 88; PCR; secreted protein; transmembrane protein; PRO; cytostatic ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
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Pred. No. 1.7e
0; Mismatches
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cytostatic;

Ashkenazi AJ Ferrara N, Goddard A, Kljavin IJ, Stewart TA,

i AJ, Baker KP, N, Filvaroff E, A, Godowski PJ, IJ, Kuo SS, Nam TA, Tumas D, W

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2004-021097/02.

(GETH )

GENENTECH INC.

26-JUN 1998
01-JUL 1998
11-SEP 1998
11-SEP 1998
20-NOV 1998
20-NOV 1998
22-DEC 1998
22-DEC 1999
10-MAR 1999
11-MAR 1999
12-MAR 1999
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99-APR 55-APR 55-APR 55-APR 11-APPR 11-APPR 12-APPR 12	31-MAR-1998; 31-MAR-1998; 31-MAR-1998; 31-MAR-1998; 01-APR-1998; 01-APR-1998; 01-APR-1998; 01-APR-1998; 08-APR-1998; 08-APR-1998; 08-APR-1998;
98US-0081203P 98US-0081817P 98US-0081813P 98US-0081955P 98US-0081955P 98US-0081955P 98US-0082568P 98US-0082770P 98US-0082797P 98US-00823136P 98US-00833136P 98US-00833195P 98US-0083496P 98US-0083554P 98US-0083554P 98US-0083554P 98US-0083554P 98US-0083554P 98US-0083554P 98US-008441P 98US-008469P 98US-008463P 98US-0085592P 98US-0085592P 98US-0085592P 98US-0085592P 98US-0085592P 98US-0085592P 98US-0085592P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P 98US-008641P	98US-0080105P. 98US-0080107P. 98US-0080165P. 98US-0080194P. 98US-0080327P. 98US-0080328P. 98US-0080334P. 98US-0081071P. 98US-0081071P. 98US-0081195P.
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Matches 15
 17-OCT-1997
03-NOV 1997
13-NOV 1997
11-NAR-1998
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31-MAR-1998
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20-JUN-2001;
29-JUN-2001;
09-JUL-2001;
30-JUL-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; 88; PCR; secreted protein; transmembrane protein; PRO; cytostatic; ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
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3-NOV-1997;
3-NOV-1997;
1-NOV-1997;
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4 CCTCCGTCCCCTTCCTC
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; 2001WO-US019692.
; 2001WO-US021066.
; 2001WO-US021735.
; 2001US-00918585.
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 97US-0062250P
97US-0064249P
97US-0063364P
98US-0077641P
98US-0077641P
98US-00777649P
98US-00777649P
98US-00778910P
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No. 1.7e+03;
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15-APR-1998
21-APR-1998
22-APR-1998
23-APR-1998
24-APR-1998
25-APR-1998
26-JUN-1998
27-APR-1998
28-APR-1998
29-APR-1998
29-APR-1998
29-APR
98US-0080334P

98US-0081070P

98US-0081170P

98US-0081203P

98US-0081203P

98US-0081819P

98US-0081819P

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Matches 15
17-OCT-1997,
03-NOV-1997,
13-NOV-1997,
13-NOV-1997,
11-MAR-1998,
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11-MAR-1998,
12-MAR-1998,
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21-MAR-1998,
27-MAR-1998,
31-MAR-1998,
31-MAR-1998,
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nilarity 88.2%;
Conservative
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Pred. No. 1.7e
0; Mismatches
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98US-0113621P
98US-0113621P
99WO-US000106
99WO-US00552465
99WO-US005526
99WO-US005521
99US-00265686
99US-00267213
99US-0123957P
99US-0130232P
99US-01310232P
99US-01311445P
99US-0131445P
99US-0131445P
99US-0131445P
99US-013145680P
99US-0146222P
99US-013145680P
99US-0146222P
99US-013023551
99WO-US003174
2000WO-US000277
2000WO-US000281
2000WO-US000281
2000WO-US0003565
2000WO-US001374

14-MAY-1999; 14-MAY-1999; 14-MAY-1999; 14-MAY-1999;

6-APR-1999; 8-APR-1999; 4-MAY-1999;

-MAR-1999; -APR-1999; L-APR-1999; )-MAR-1999; )-MAR-1999; ?-MAR-1999;

-MAR-1999

16-JUN-1999
23-JUN-1999
23-JUN-1999
26-JUL-1999
28-JUL-1999
29-CCT-1999
29-CCT-1999
29-CCT-1999
30-DEC-1999
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21-MAR-2000
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(GETH

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GENENTECH

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20-NOV-1998;
05-JAN-1999;
08-MAR-1999;
11-MAR-1999;
12-UN-1999;
02-DEC-1999;
02-DEC-1999;
02-DEC-1999;
03-DEC-1999;
03-DEC-1999;
03-DEC-1999;
06-JAN-2000;
06-JAN-2000;
06-JAN-2000;
11-FEB-2000;
11-FEB-2000;
11-FEB-2000;
11-FEB-2000;
11-MAR-2000;
11-MAR
peptide, a peptide).
                 The invention relates to an isolated PRO polypeptide (secreted or transmembrane protein) having at least 80% amino acid sequence identity to an amino acid sequence chosen from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal peptide, a PRO extracellular domain with or without its associated signal
                                                                                                                                                                                          New PRO polypeptide useful for treating peripheral neuropathy, or neuropathies associated with systemic disease such as post-polio or acquired immunodeficiency syndrome-associated syndrome.
                                                                                                                                                                                                                                                                                                                                                  Kljavin
                                                                                                                                                                                                                                                                                                                                                                      Goddard
                                                                                                                                                                                                                                                                                                                                                                                             Ferrara
                                                                                                                                                                                                                                                                                                                                                                                                                 Ashkenazi
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Filvaroff E,
Godowski PJ,
Kuo SS, Nap
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98US-0081255P.
98US-0082569P.
98US-0082770P.
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98US-0082797P.
98US-0082797P.
98US-0083336P.
98US-0083322P.
99WO-US001190.
99WO-US001295.
199WO-US001295.
199WO-US00129313.
199WO-US0122565.
199WO-US0122565.
199WO-US012473.
199WO-US001274.
2000WO-US001274.
2000WO-US001376.
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12000WO-US014042.
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12000WO-US015264.
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Fong S, Gao W, Gerber H, Gerritses
Grimaldi JC, Gurney AL, Hillan KJ;
ier MA, Pan J, Paoni NF, Roy MA,
                                                                                                                                                   459pp;
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encoding the

Ashkenazi AJ, Baker KP, Ferrara N, Filvaroff E,

Botstein Fong S,

Gao

Desnoyers L, W, Gerber H,

Eaton DL; Gerritsen

š

Eaton DL; Gerritsen

M 円 :

Shelton

DL;

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syndrome

RESULT 2296 ADF40964 밁 Ś CC polypeptide in a sample suspected of containing PRO493 polypeptide. CC Similarly, PRO493 polypeptide is useful for detecting PRO337 CC Similarly, PRO493 polypeptide is useful for detecting PRO337 CC polypeptide. PRO700 or PRO735 polypeptide is useful for detecting PRO355 polypeptide, and PRO1559 polypeptide is useful for detecting CC PRO725, PRO700 or PRO739. PRO4939 polypeptide is useful for linking a CC bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive concent is the toxin, radiolable, or an antibody. The bioactive molecule causes death of the cell. PRO337 polypeptide is useful for linking a cc bioactive molecule to a cell expressing PRO4939 polypeptide; PRO775, CC PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule to a cell expressing PRO4939 polypeptide is useful for linking a bioactive molecule to a cell expressing PRO725, CC PRO700 or PRO739 polypeptide. PRO4939 polypeptide is useful for linking a bioactive molecule to a cell expressing PRO337 polypeptide, where the cell expressing PRO337 polypeptide is useful for modulating the cell expressing PRO337 polypeptide is useful for modulating the CC polypeptide; PRO4939 polypeptide is useful for modulating the CC polypeptide; and PRO337 polypeptide is useful for modulating the polypeptide; PRO725, cc polypeptide; and PRO337 polypeptide is useful for modulating the cell expressing PRO337 polypeptide; PRO725, anti-PRO700 or anti-PRO725, cc polypeptide; and PRO359 polypeptide or anti-PRO725, anti-PRO700 or anti-PRO739 polypeptide; PRO725, anti-PRO700 or anti-PRO739 polypeptide; problems, articular cartilage defects, costcoarthritis or rheumatoid arthritis, wound healing and hearing loss in gene amplification in certain tumour cell lines. Matches Query Match Best Local Similarity Human; 88; PCR; secreted protein; transmembrane protein; PRO; cytostati ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports-related joint problem articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation. 25-OCT-2001; Sequence comprising the vector and producing PRO, a chimaeric PRO fused to a heterologous amino acid sequence, and antibody. PRO337 polypeptide is useful for detecting US2003199021-A1 Homo sapiens Human ADF40964 standard; DNA; 30-JUL-2001; 2001US-00918585 12-FEB-2004 mentioned above, a vector comprising a PRO nucleic acid), (GETH ) GENENTECH INC. 1244 PRO 15; 4 24 CCTCCGTCCACGTCCTC 1260 cerecerecerreere 618 Conservative BP; 1 A; 2001US-00013924. (first entry) Taqman 0.3%; PCR probe. 14 C; 1 24 BP 20 0, G; 8 Score 13.8; Pred. No. 1. Mismatches T; 0 U; .7e+03 DB 0 Other; <u>;</u> 2; Length Indels a PRO4993 an anti-PRO molecule 24; <u>.</u> host cell cytostatic; comprising Gaps problem; 0

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ADF23
                                                                                                                                                                                                                                                                                                                                                                                                                                                         CC mentioned above, a vector comprising a PRO nucleic acid), a host cell comprising the vector and producing PRO, a chimaeric molecule comprising CC comprising the vector and producing PRO, a chimaeric molecule comprising CC propertide in a sample suspected of containing PRO493 polypeptide. Si useful for detecting a PRO493 CC Similarly, PRO493 polypeptide is useful for detecting PRO337 CC Similarly, PRO493 polypeptide is useful for detecting PRO337 CC polypeptide, and PRO359 polypeptide is useful for detecting PRO379 polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting CC PRO559 polypeptide, and PRO459 polypeptide is useful for detecting CC PRO725, PRO700 or PRO739 PRO493 polypeptide is useful for linking a CC process death of the cell expressing PRO493 polypeptide. PRO725, CC PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule to a cell expressing PRO493 polypeptide is useful for linking a bioactive molecule to a cell expressing PRO493 polypeptide is useful for linking a bioactive molecule to a cell expressing PRO493 polypeptide is useful for linking a bioactive molecule to a cell expressing PRO725, CC PRO700 or PRO739 polypeptide. PRO4993 polypeptide is useful for modulating a bioactive molecule to a cell expressing PRO493.

CC polypeptide is useful for modulating a bioactive molecule or anti-PRO493 polypeptide pRO725, CC pRO700 or PRO739 polypeptide. PRO4993 polypeptide or anti-PRO337 polypeptide. PRO337 polypeptide is useful for modulating the biological activity of the cell expressing PRO493 polypeptide; pRO725, PRO700 or PRO739 polypeptide or anti-PRO493 polypeptide; pRO725, CC prof700 or PRO739 polypeptide or anti-PRO493 polypeptide; pRO725, PRO700 or PRO739 polypeptide or anti-PRO493 polypeptide. PRO493 polypeptide is useful for modulating the biological activity of the cell expressing PRO493 polypeptide. PRO755 prof70 or PRO739 polypeptide is useful for modulating the biological activity of the cell expressing PRO493 polypeptide is useful for modulating the bio
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Best Local S
Matches 15
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Kljavin
Stewart
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useful for treating e.g. lung
rheumatoid arthritis, obesity,
  Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic;
                                          Human PRO 618 Tagman PCR probe.
                                                                                       12-FEB-2004
                                                                                                                                                                         ADF23908
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      peptide, a PRO extracellular domain with or without its associated signal peptide). Also included are nucleic acids encoding the PRO proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   in o
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              e invention relates to an isolated PRO pol
ansmembrane protein) having at least 80% a
an amino acid sequence chosen from 94 th
the specification (including PRO lacking
                                                                                                                                                                                                                                                                                                                            1244 CCTCCGTCCACGTCCTC
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15; Conserv
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Kuo SS,
Tumas D,
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Williams
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ng at least 80% amino acid sequence ion 
hosen from 94 fully defined sequences
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Pred. No. 1
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                                                                                                                                                                                                                                                                                                                                                                                                          Length 24;
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> ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports-related joint problem. artirular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation. ed joint problem; arthritis;

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21-MAR-2000
21-MAY-2000
22-MAY-2000
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Human; 88; PCR; secreted protein; transmembrane protein; PRO; cytostatic; ophthalmological, antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sporter-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
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                                                                                                                  Human
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99WO-USO31274.
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2000WO-USO00277.
2000WO-USO00376.
2000WO-USO05841.
2000WO-USO05841.
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2000WO-USO05841.
2000WO-USO1526.
2000WO-USO14941.
2000WO-USO1526.
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0; Mismatches
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30-APR 1998
06-MAY 1998
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07-MAY 1998
13-MAY 1998
13-MAY 1998
15-MAY 1998
11-MAY 1998
11-MAY 1998
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11-MAR 1999
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98US-0084742P
98US-0084414P
98US-008460P
98US-0084637P
98US-0084637P
98US-0085333P
98US-0085333P
98US-0085573P
98US-0085573P
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98US-001687208P
98US-001687208P
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98US-001687208P
98US-001687211
98US-001687211
98US-00168721
99US-0134287P

7-OCT-1998;
7-OCY-1998;
6-NOV-1998;
6-NOV-1998;
6-NOV-1998;
7-DEC-1998;
7-DEC-1998;
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7-DEC-1998;
8-MAR-1999;
8-MAR-1999;
8-MAR-1999;
9-MAR-1999;
10-MAR-1999;
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RESULT 2
ADF33891
ID ADF
XX ADF
XX ADF
XX ADF
XX Hum
XX Oph
KW Oph
KW art
KW avou
XX Wou
XX Hom
XX Hom
XX AF
      Homo sapiens.
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16-OCT-2003 US2003194780-A1.

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08-MAR-1999
11-ARR-1999
15-ARR-1999
15-ARR-1999
14-MAY-1999
25-AUG-1999
25-AUG-1999
20-DEC-1999
20-DEC-1999
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30-DEC-1900
11-FEB-2000
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21-JUN-2001
25-MAY-2001
                                                                                                                                                                                                      Ferrara
Goddard
Kljavin
Stewart
The invention relates to an isolated PRO polypeptide (secreted or transmembrane protein) having at least 80% amino acid sequence identity to an amino acid sequence chosen from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal peptide, a PRO extracellular domain with or without its associated signal peptide). Also included are nucleic acids encoding the PRO proteins mentioned above, a vector comprising a PRO nucleic acid), a host cell
                                                                                                                    New secreted and transmembrane nucleic acid useful for treating inflammation, organ failure, atherosclerosis, cardiac injury, infertility, birth defects, premature aging, acquired immunodeficiency syndrome, or cancer.
                                                                                                Example
                                                                                                                                                                                 WPI;
                                                                                                                                                                                                                                                     Ashkenazi
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Filvaroff E,
Godowski PJ,
Kuo SS, Nap,
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2000WO-US000271
2000WO-US000276
2000WO-US000376
2000WO-US004341
2000WO-US005841
2000WO-US006319
2000WO-US006319
2000WO-US013705
2000WO-US013705
2000WO-US014941
2000WO-US014941
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2000WO-US0237328
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99WO-US005190
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99WO-US010733
99WO-US01252
99US-00380138
99WO-US028313
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E, Fong S, Gao W, Gerbe
PJ, Grimaldi JC, Gurney A
Napier MA, Pan J, Paoni
Williams PM, Wood WI;
                                                                                             573; 463pp; English
                                                                                                                                                                                                      Desnoyers L, Eaton L, W, Gerber H, Gerritsen ME;
, Gurney AL, Hillan KJ;
, Daoni NF, Roy MA, Shelt
                                                                                                                                                                                                                 Shelton
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ccomprising the vector and producing PRO, a chimaeric molecule comprising PRO fused to a heterologous amino acid sequence, and an anti-PRO contribody. PRO337 polypeptide is useful for detecting a PRO4993 polypeptide. Reports, pro739 polypeptide is useful for detecting PRO337 polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting PRO337 polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting PRO337 polypeptide. The bloactive molecule to a cell expressing PRO337 polypeptide. The bloactive molecule is the toxin, radiolabel, or an antibody. The bloactive molecule is the toxin, radiolabel, or an antibody. The bloactive molecule is causes death of the cell. PRO337 polypeptide is useful for linking a bloactive molecule to a cell expressing PRO499 polypeptide; and PRO725, PRO700 or PRO739 polypeptide are useful for linking a bloactive molecule to a cell expressing PRO499 polypeptide; and PRO1559 polypeptide is useful for linking a bloactive molecule for linking a bloactive molecule for a cell expressing PRO799 polypeptide are useful for linking a bloactive molecule for pro799 polypeptide is useful for modulating the cell expressing PRO725, cell expressing PRO739 polypeptide is useful for modulating the cell expressing PRO739 polypeptide or anti-PRO337 polypeptide is useful for modulating the cell expressing PRO739 polypeptide or anti-PRO739 polypeptide or anti-PRO739 polypeptide is useful for modulating the biological activity of the cell expressing PRO725, cell expressing PRO739 polypeptide or anti-PRO739 polypeptide or anti-PRO739 polypeptide or anti-PRO739 polypeptide is useful for modulating the biological activity of the cell expressing PRO755 polypeptide. The cell expressing PRO755 polypeptide or anti-PRO739 pol
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03-NOV-1997;
13-NOV-1997;
21-NOV-1997;
10-MAR-1998;
11-MAR-1998;
11-MAR-1998;
                                                                                                                                                                                                                                                                                          Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostati ophthalmological; antiarthritic; ostcopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports-related joint problem articular cartilage defects; ostcoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
                                                                                                              17-OCT-1997;
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                                                                                                                                                                                                                                                           Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                          Human
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97US-0064249P
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                       J
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98US-0086414P
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98US-008708P
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98US-00910109038P
98US-0013295P
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99US-014682P
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Baker 중,

Botstein D,

Desnoyers

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ID ADF27994
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AC ADF2799
AC ADF2799
XX Human;
KW Human;
KW Ophthal
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XX Homo sa
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   17-OCT-1997;
03-NOV'1997;
13-NOV'1997;
21-NOV'1997;
10-MAR-1998;
11-MAR-1998;
11-MAR-1998;
11-MAR-1998;
12-MAR-1998;
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arthritis, c
neuropathy.
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Goddard
Kljavin
Stewart
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                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME; Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ; Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelto Tumas D, Williams PM, Wood WI;
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 97US-0064249P
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Pred. No. 1.7e+
0; Mismatches
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tches 2;
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32-APR-1998
33-APR-1998
31-MAY-1998
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32-MAY-1998
32-MAY-1998
32-MAY-1998
32-MAY-1998
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98US-0079264P

98US-0079656P

98US-0079656P

98US-0079728P

98US-0080105P

98US-0080165P

98US-0080327P

98US-0080333P

98US-0081070P

98US-0081070P

98US-0081197P

98US-0081199P

98US-0
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RESULT 2301
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Matches 15
17-OCT-1997
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27-WAR-1998
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27-WAR-1998
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10-MAY-2001
10-MAY-2001
25-MAY-2001
01-UUN-2001
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14-UUN-2001
14-UUN-2001
19-UUN-2001
29-UUN-2001
39-UUL-2001
                                                                                                                                                                                                                                                 Human; 88; PCR; secreted protein; transmembrane protein; PRO; cytostatic; ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sporter-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
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Ferrara N,
                                                                                                                                                                                                                                   Homo
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                                                                                                                                                                                                                                                                                                    Human
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15; Conservative
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                                                                                                                                                                                                                                                                                                                                                     standard;
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, Filvaroff E,
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2001US-00854208.
2001US-00854280.
2001WG-US017092.
2001US-00872035.
2001US-00874503.
2001US-00886342.
2001WG-US0210662.
2001WG-US0210692.
2001WG-US021065.
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97US-0062250P.
97US-0063311P.
97US-0063364P.
98US-0077450P.
98US-0077641P.
98US-00777641P.
98US-0077791P.
98US-007791P.
98US-007791P.
98US-007886P.
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Pred. No. 1.
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W, Gerber H,
                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 1;
.7e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                            Length
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Gerritsen
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28-MAY-1998
28-MAY-1998
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28-MAY-1998
26-JUN-1998
26-JUN-1998
30-JUL-1998
30-JUL-1998
30-JUL-1998
30-JUL-1998
07-OCT-1998
07-OCT-1998
07-OCT-1998
07-DCC-1998
07-DCC-1998
07-DCC-1998
07-DCC-1998
07-DCC-1998
07-DCC-1998
07-DCC-1998
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07-DCC-1999
07-MAR-1999
11-MAR-1999
11-MAR-2000
11-FEB-2000

98US-0087098 98US-008708P 98US-008708P 98US-00105413 98US-00910199 98US-00910199 98US-00910190338 98US-0010821141 98US-001821141 98US-001821141 98US-0118736 98US-0118736 98US-0118736 98US-0118736 98US-0118736 98US-0118736 98US-0118736 98US-0118736 98US-0118736 99US-0118736 99US-0118737 99

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	<u>.                                    </u>
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07-OCT 1998 07-OCT 1998 07-OCT 1998 06-NOV 1998 26-NOV 1998 27-DEC 1998 27-DEC 1998 27-DEC 1998 27-DEC 1998 27-DEC 1999 08-MAR 1999 10-MAR 1999 10-MAR 1999 10-MAR 1999 11-MAY 1999 11-MAR 1999 11-MAY 2000 11-MAY	
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98US-00168978 98WS-00181786 98US-00181786 98US-00181786 98US-00187368 98US-00187368 98US-001202054 98US-00202054 98US-013621P 98US-0113621P 99US-0113621P 99US-01302050 99US-014650 99US-01302050 99US-014650 99US-01465	-0091359P -0094651P

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RESULT 2302
ADF3326
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XX ADF3326
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XX Human P
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Best Local Similarity 88.2%;
Matches 15; Conservative
 17-OCT-1997
13-NOV-1997
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11-NOV-1997
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20-JUN-2001;
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09-JUL-2001;
30-JUL-2001;
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Ferrara N,
Goddard A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; 88; PCR; secreted protein; transmembrane protein; PRO; cytostatic; ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
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N, Filvaroff E,
A, Godowski PJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           standard;
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; 2001WO-US019692.
; 2001WO-US021066.
; 2001WO-US021735.
; 2001US-00918585.
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 97US-0062250P

97US-006424P

97US-0065311P

98US-0077643P

98US-0077641P

98US-00777641P

98US-0077791P

98US-007791P

98US-0078910P

98US-0078910P

98US-0078936P

98US-0079294P

98US-0079656P

98US-0079664P

98US-0079728P

98US-0080105P

98US-0080105P

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Fong S,
Grimaldi
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Pred. No. 1.7e+03;
0; Mismatches 2
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Gao
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W, Gerber H,
Gurney AL, H
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H, Gerritsen
Hillan KJ;
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29-APR 1998
15-MAY 1998
15-MAY
 98US-0080339P

98US-0081049P

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98US-0081195P

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98US-0081818P

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98US-0097134P

98US-0097134P

98US-0097134P

98US-011324855
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3-MAR-1999; 0-MAR-1999; 2-MAR-1999;

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The invention relates to an isolated PRO polypeptide (secreted or transmembrane protein) having at least 80% amino acid sequence ident to an amino acid sequence chosen from 94 fully defined sequences as in the specification (including PRO lacking its associated signal peptide, a PRO extracellular domain with or without its associated speptide). Also included are nucleic acids encoding the PRO proteins mentioned above, a vector comprising a PRO nucleic acid), a host ceicomprising the vector and producing PRO, a chimaeric molecule comprising the vector and producing PRO, a chimaeric molecule comprising the vector and producing PRO, a chimaeric molecule comprising the vector and producing PRO.
                                                                                                                                                                                                                                                                                                                    Novel PRO polypeptides useful neuropathies associated with sor AIDS-associated syndrome.
                                                                                                                                                                                                                                                              Example 114; SEQ ID NO 573; 465pp; English
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Filvaroff E,
Godowski PJ,
Kuo SS, Nar
, Tumas D, Wi
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99US-013023P.
99US-013023P.
99US-0131022P.
99US-0131428P.
99US-0134287P.
99US-0142680P.
99US-0146222P.
99US-0146222P.
99US-0146222P.
99US-0146222P.
99US-0162506P.
99US-0146222P.
99US-014622313.
99WO-US002851.
99WO-US0031274.
2000WO-US0031274.
2000WO-US0031274.
2000WO-US0031274.
2000WO-US005631.
2000WO-US005631.
2000WO-US005631.
2000WO-US00631.
2000WO-US00631.
2000WO-US00631.
2000WO-US0014941.
2000WO-US014941.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           KP, Botstein D, Desnoyers L, Eaton DL;
B, Fong S, Gao W, Gerber H, Gerritsen ME;
PJ, Grimaldi JC, Gurney AL, Hillan KJ;
Napier MA, Pan J, Paoni NF, Roy MA, Shelt
Williams PM, Wood WI;
                                                                                                                                                                                                                                                                                                                                                  l for treating peripheral systemic disease such as
                                                                                         its associated signal
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post-polio syndrome
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identity
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Best Local :
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26-JUN 1998
07-OCT 1998
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07-OCT 1998
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20-NOV 1999
05-MAR 1999
05-MAR 1999
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11-MAR 1999
11-MAR 1999
12-APR 1999
12-APR 1999
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12-APR 1999
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14-MAY 1999
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16-DEC 1999
25-AUG-1999
30-DEC 1999
30-DEC 1999
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  98US-00040220.
98US-00168978.
98US-00168978.
98US-00168978.
98US-0018736.
98US-0018736.
98US-00218517.
99US-0025686.
99US-00267213.
99US-00267213.
99US-00284291.
99US-00284291.
99US-003801832.
99US-00380137.
99US-00380137.
99US-0038012252.
99US-00380137.
99US-00380137.
99US-00380137.
99US-00380137.
99US-00380138.
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Ferrara Goddard Kljavin Stewart

H. P.

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GETH

12-MAR-1999;
21-APR-1999;
21-APR-1999;
22-APR-1999;
24-APR-1999;
14-MAY-1999;
14-MAY-1999;
16-JUN-1999;
23-JUN-1999;
23-JUN-1999;
26-JUL-1999;
26-JUL-1999;
26-JUL-1999;
26-JUL-1999;
26-JUL-1999;
26-JUL-1999;
30-DEC-1999;
30-DEC-1900;
21-MAR-2000;
21-MA

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Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRO fused to a heterologous amino acid sequence, and an anti-PRO antibody. PRO337 polypeptide is useful for detecting a PRO4993 polypeptide in a sample suspected of containing PRO4993 polypeptide. Similarly, PRO4993 polypeptide is useful for detecting PRO337
                                                                                                                                   probe.
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Pred. No. 1.7e+03;
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                                                                               cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
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10-MAR-2000;
21-MAR-2000;
30-MAR-2000;
22-MAY-2000;
30-MAY-2000;
22-MIU-2000;
28-UIU-2000;
24-AUG-2000;
20-DEC-2000;
20-DEC-2000;
20-DEC-2000;
20-DEC-2000;
20-DEC-2000;
20-DEC-2000;
20-DEC-2000;
20-DEC-2000;
20-DEC-2000;
21-NAY-2001;
22-MAR-2001;
22-MAR-2001;
23-MAY-2001;
24-MAY-2001;
25-MAY-2001;
25-MAY-2001;
26-MAY-2001;
27-MAY-2001;
28-MAY-2001;
29-MAY-2001;
21-UIU-2001;
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2000WO-US023328

2000WO-US023328

2000WO-US023328

2000US-00723743

2000WO-US032678

2000WO-US034566

2000WO-US034566

2001WO-US034566

2001WO-US0345674

2001WO-US036520

2001WO-US036520

2001WO-US05620

2001WO-US05620

2001WO-US07620

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2000WO-US014042.
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Kljavin Stewart Ferrara Goddard ጀ AJ, Baker KP, Filvaroff E, Godowski PJ, Kuo SS, Nap Napier MA, P Williams PM, Botstein D, Desnoyers L, Eaton DL; Fong S, Gao W, Gerber H, Gerritsen ME; Grimaldi JC, Gurney AL, Hillan KJ; ier MA, Pan J, Paoni NF, Roy MA, Shelt lliams PM, Wood WI; Roy MA, Shelton 먇

## WPI; 2004-021572/02.

New nucleic acid encoded a secreted and transmembrane polypeptide, useful for treating e.g. lung or breast tumors, osteoarthritis, rheumatoid arthritis, obesity, diabetes, hyperinsulinemia, hypoinsulinemia or

Example 114; SEQ ID NO 573; 456pp; English.

CC transmembrane protein) having at least 80% and sequence identity
CC to an amino acid sequence chosen from 94 fully defined sequences as given
CC in the specification (including PRO lacking its associated signal
CC peptide, a PRO extracellular domain with or without its associated signal
CC peptide). Also included are nucleic acids encoding the PRO proteins
CC mentioned above, a vector comprising a PRO nucleic acid), a host cell
CC comprising the vector and producing PRO, a chimaeric molecule comprising
CC PRO fused to a heterologous amino acid sequence, and an anti-PRO
CC antibody. PRO337 polypeptide is useful for detecting a PRO4993
CC polypeptide in a sample suspected of containing PRO4993 polypeptide.
CC polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting
CC PRO1559 polypeptide, and PRO1559 polypeptide is useful for detecting
CC PRO725, PRO700 or PRO739. PRO4993 polypeptide is useful for linking a
CC bioactive molecule to a cell expressing PRO337 polypeptide.
CC causes death of the cell. PRO337 polypeptide is useful for linking a
CC consective molecule to a cell expressing PRO4993 polypeptide; PRO725,
CC PRO700 or PRO739 polypeptide are useful for linking a
CC bioactive molecule to a cell expressing PRO4993 polypeptide is
CC causes death of the cell. PRO337 polypeptide is useful for linking a
CC consective molecule to a cell expressing PRO4993 polypeptide; PRO725,
CC PRO700 or PRO739 polypeptide are useful for linking a
CC useful for linking a bioactive molecule
CC useful for modulating at least one biological activity of
CC polypeptide is useful for modulating at least one biological activity of
CC polypeptide is useful for modulating at least o The invention relates to an isolated PRO polypeptide (secreted

11-MAR-1998 11-MAR-1998 13-MAR-1998 20-MAR-1998 20-MAR-1998 20-MAR-1998 20-MAR-1998 25-MAR-1998 27-MAR-1998 27-MAR-1998 27-MAR-1998 27-MAR-1998 27-MAR-1998 31-MAR-1998

98US-98US-

3-0079294P. 3-0079656P.

**SU86** 

3-0078886P. 3-0078910P. 3-0078936P. 3-0078939P.

3-0079663P. 3-0079664P. 3-0079689P. 3-0079728P.

10-MAR-1998; 11-MAR-1998; 11-MAR-1998;

-0077450P. -0077632P. -0077641P.

\$086 \$086 \$086 \$086 \$086 \$086 \$086

-0077649P. -0077791P. -0078004P.

03-NOV-1997; 13-NOV-1997; 21-NOV-1997;

97US-0064249P. 97US-0065311P. 97US-0066364P.

16-OCT-2001;

2001US-00978802

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RESULT 2304
ADF26734
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Best Local Similarity
Matches 15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          polypeptide or anti-PRO4993 polypeptide is useful for modulating the biological activity of the cell expressing PRO4993 polypeptide; PRO725, PRO700 or PRO739 polypeptide or an anti-PRO1559 polypeptide is useful for modulating the biological activity of the cell expressing PRO1559 polypeptide; and PRO1559 polypeptide or anti-PRO725, anti-PRO700 or anti-PRO739 polypeptide; is useful for modulating the biological activity of the cell expressing PRO725, PRO700 or PRO739 polypeptide. The polypeptides are useful for inhibiting tumour growth, retinal disorders, sports-related joint problems, articular cartilage defects, osteoarthritis or rheumatoid arthritis, wound healing and hearing loss in mammals. The present sequence is a Tagman PCR probe used investigate PRO gene amplification in certain tumour cell lines.
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostati ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports-related joint problem articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human PRO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1244 CCTCCGTCCACGTCCTC 1260
                                                                                                                                                                                                                                                                                                                                                                                                                            sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CCTCCGTCCCCTTCCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  618 Taqman PCR probe
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.3%;
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Pred. No. 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cytostatic;
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Ashkenazi AJ
Ferrara N,
Goddard A,
Kljavin IJ,
Stewart TA,
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23-DEC-1998;
05-JAN-1999;
10-MAR-1999;
11-MAR-1999;
22-MAR-1999;
23-MAR-1999;
24-MAY-1999;
24-MAY-1999;
25-JUN-1999;
26-JUN-1999;
26-JUL-1999;
27-JUL-1999;
27-JUL-1999;
28-JUL-1999;
28-JUL-1999;
29-DCT-1999;
20-DEC-1999;
20-DEC-2900;
21-MAR-2000;
21-MAR-2000;
21-MAR-2000;
22-MAY-2000;
23-MAY-2000;
24-AUG-2000;
25-MAY-2000;
26-FEB-2000;
21-MAR-2000;
21-MAR-2000;
21-MAR-2000;
22-MAY-2000;
23-MAY-2000;
24-AUG-2000;
25-MAY-2000;
26-FEB-2000;
27-MAR-2000;
21-MAR-2000;
21-MAR-2000;
21-MAR-2000;
22-MAR-2000;
23-MAY-2000;
24-AUG-2000;
25-MAY-2000;
26-FEB-2000;
27-MAR-2000;
29-DEC-2000;
20-DEC-2000;
20-DE
                                                                                                                                    New PRO penhance treating
The invention relates to an isolated PRO polypeptide (secreted or transmembrane protein) having at least 80% amino acid sequence identity to an amino acid sequence as give to an amino acid sequence from 94 fully defined sequences as give in the specification (including PRO lacking its associated signal peptide, a PRO extracellular domain with or without its associated signal
                                                                                                       Example
                                                                                                                                                                                                                                                                                                                                                      (GETH
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                                                                                                       114;
                                                                                                                                    polypeptides PRO200, PRO322, PRO540, PRO846 and the survival/proliferation of rod photoreceptor gretinal disorders or injuries e.g., sight loss
                                                                                                                                                                                                                                                                                                                                                      GENENTECH
                                                                                                                                                                                                                                          AJ, Baker KP, Botstein D, Desnoyers L, Filvaroff E, Fong S, Gao W, Gerber H, Godowski PJ, Grimaldi JC, Gurney AL, 1 J, Kuo SS, Napier MA, Pan J, Paoni NF, A, Tumas D, Williams PM, Wood WI;
                                                                                                                                                                                                                                                                                                                                                                                     98US-0113296P.
99WO-US005190
99WO-US005190
99WS-0123957P.
99US-01314287P.
99US-01310232P.
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99US-01310232P.
99US-014269P.
99US-0146259P.
99US-0146259P.
99US-0146259P.
99US-0162506P.
99WO-US031274.
99WO-US031274.
199WO-US031274.
2000WO-US030277.
2000WO-US031274.
2000WO-US031286.
2001WO-US031286.
                                                                                                       SEQ
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                                                                                                       573;
                                                                                                     464pp;
                                                                                                       English.
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Hillan KJ;
Roy MA, Sh
                                                                                                                                        d PRO617 that cells, useful in mammals.
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                                  given
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signal

31-MAR-1998
31-MAR-1998
31-MAR-1998
31-APR-1998
30-APR-1998
30-APR-1998
30-APR-1998
30-APR-1998
30-APR-1998
30-APR-1998
30-APR-1998
315-APR-1998
315-APR-1998
32-APR-1998
33-MAY-1998
33-M

98US-0080165P
98US-0080337P
98US-0080337P
98US-0080337P
98US-0080337P
98US-0081071P
98US-0081071P
98US-0081195P
98US-0081195P
98US-0081195P
98US-0081817P
98US-0081817P
98US-0081817P
98US-0081819P

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RESULT 2305
ADF34523
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Best Local S
Matches 15
transmembrane protein) having at least 80% amino acid sequence identity to an amino acid sequence chosen from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal peptide, a PRO extracellular domain with or without its associated signal peptide). Also included are nucleic acids encoding the PRO proteins mentioned above, a vector comprising a PRO nucleic acid), a host cell comprising the vector and producing PRO, a chimaeric molecule comprising PRO fused to a heterologous amino acid sequence, and an anti-PRO antibody. PRO337 polypeptide is useful for detecting a PRO4993 polypeptide is useful for detecting PRO4993 polypeptide is useful for detecting PRO4993 polypeptide is useful for detecting PRO337 polypeptide is useful for detecting PRO339 polypeptide PRO339 polypeptide is useful for detecting PRO339 polypeptide PRO339 polyp
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Kljavin
Stewart
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Goddard A,
Kljavin IJ,
Stewart TA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; 88; PCR; secreted protein; transmembrane protein; PRO; cytostatic; ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnorary; auditory; tumour growth; retinal disorder; sports-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
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                                                                                                                                                                                                                                                                                                                                                                                              hybridization probe
                                                                                                                                                                                                                                                                                                                                                                                                               New secreted and transmembrane PRO nucleic acid, for use in gene therapy, as a molecular weight marker for protein electrophoresis, as a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       18-FEB-2000; 2000WO-US004341
30-JUL-2001; 2001US-00918585
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo
                                                                                                                                                                                                                                                                                              The invention relates to an isolated PRO polypeptide (secreted or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ashkenazi
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADF34523 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1244 CCTCCGTCCACGTCCTC 1260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2004-021069/02.
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                                                                                                                                                                                                                                                                                                                                              114; SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AJ, Baker KP,
Filvaroff E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Godowski PJ,
Kuo SS, Na
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0.3%;
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                                                                                                                                                                                                                                                                                                                                                                                              or as a therapeutic
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, Williams PM,
                                                                                                                                                                                                                                                                                                                                         573; 461pp;
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Fong S, Gao W, Gerber H, Gerrid
Grimaldi JC, Gurney AL, Hillan
ier MA, Pan J, Paoni NF, Roy MF
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Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                              English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        JC, Gurney AL, an J, Paoni NF, Wood WI;
                                                                                                                                                                                                                                                                                                                                                                                              agent.
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Gerritsen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Roy MA,
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RESULT 2306
ADF46760
ID ADF4676
XX ADF4676
XX Human F
XX Human F
XX Human F
XX W Ophthal
KW Wound I
XW Wound I
XX US20031
XX Homo 86
XX Homo 87
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cc causes death of the cell expressing PRO159 polypeptide; PRO705, PRO705 or RRO739 polypeptide are useful for linking a consecutive molecule to a cell expressing PRO4933 polypeptide; PRO705, PRO703 polypeptide are useful for linking a bloactive molecule to a cell expressing PRO4939 polypeptide; and PRO1559 polypeptide is consecutive molecule to a cell expressing PRO725, PRO700 or PRO739 polypeptide. PRO4939 polypeptide; and PRO1559 polypeptide is consecutive molecule to a cell expressing PRO725, PRO700 or PRO739 polypeptide. PRO4939 polypeptide or anti-PRO337 cc polypeptide is useful for modulating at least one biological activity of the cell expressing PRO493 polypeptide is useful for modulating the cell expressing PRO4937 polypeptide is useful for modulating the biological activity of the cell expressing PRO493 polypeptide is useful for modulating the biological activity. FRO750 polypeptide is useful for modulating the biological activity of the cell expressing PRO725, PRO700 or PRO739 polypeptide or anti-PRO1559 polypeptide or anti-PRO755, anti-PRO700 or anti-PRO739 polypeptide is useful for modulating the biological activity of the cell expressing PRO1559 polypeptide or anti-PRO755, anti-PRO700 or anti-PRO739 polypeptide is useful for modulating the biological activity of the cell expressing PRO755, anti-PRO700 or anti-PRO750 polypeptides are useful for inhibiting tumour growth, retinal disorders, sports-related joint problems, articular cartilage defects, ose costathritis or rheumatoid arthritis, wound healing and hearing loss in costeoarthritis or rheumatoid arthritis, wound healing and hearing loss in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
Matches 15; Conserv
                                                                                                                                                                                                                                  21-NOV-1997;
10-MAR-1998;
11-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                       03-NOV-1997
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ophthalmological; antiarthritic; osteopathic; antirheumatic; vulne; auditory; tumour growth; retinal disorder; sports-related joint prearticular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; ss; PCR; secreted protein; transmembrane protein; PRO; ophthalmological; antiarthritic; osteopathic; antirheumatic; o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADF46760 standard; DNA; 24
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     16-OCT-2003.
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                                                                                                                                                                                                                                                                                                                                     13-NOV-1997
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Pred. No. 1
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20-MAR-1998; 20-MAR-1998; 20-MAR-1998;

11-MAR-1998; 11-MAR-1998; 12-MAR-1998; 13-MAR-1998;

98US 98US-

-SAR6 -SAR6 -SAR6 -SAR6 -SAR6 -SAR6 -SAR6 -SAR6

S-0077450P.
S-0077632P.
S-0077641P.
S-0077791P.
S-0078004P.
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WPI; 2004-021096/02.	Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL; Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME; Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ; Kljavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL; Stewart TA, Tumas D, Williams PM, Wood WI;	(GETH ) GENENTECH INC.	30-JUL-2001; 2001US-00918585.	20-JUN-2001	25-MAY-2001; 01-JUN-2001;	22-MAR-2001	28-FEB-2001;	01-DEC-2000;	24-AUG-2000; 2000WO-US023328.	28-JUL-2000;	30-MAY-2000;	22-MAY-2000;	17-MAY-2000	21-MAR-2000;	10-MAR-2000	02-MAR-2000; 2000WO-US005841.	18-FEB-2000;	11-FEB-2000; 2000WO-US003565.	06-JAN-2000; 2000WO-US000376.	05-JAN-2000;	30-DEC-1999,	30-DEC-1999;	16-DEC-1999;	02-DEC-1999;	30-NOV-1999;	29-OCT-1999,	28-JUL-1999;	07-JUL-1999;	23-JUN-1999,	16-JUN-1999;	14-MAY-1999,	14-MAY-1999;	26-APR-1999;	21-APR-1999;	12-MAR-1999;	10-MAR-1999;	08-MAR-1999;	23-DEC-1998;	22-DEC-1998;	20-NOV-1998;	20-NOV-1998	11-SEP-1998;	30-JUL-1998;	01-JUL-1998;	26-JUN-1998;	28-MAY-1998;	28-MAY-1998;	22-MAY-1998;

25-MAR 1998 26-MAR 1998 27-MAR 1998 27-MAR 1998 27-MAR 1998 27-MAR 1998 30-MAR 1998 30-MAR 1998 31-MAR 1998 31-MAR 1998 31-MAR 1998 31-MAR 1998 01-APR 1998 01-APR 1998 01-APR 1998 01-APR 1998 01-APR 1998 01-APR 1998 15-APR 1998 15-APR 1998 15-APR 1998 15-APR 1998 29-APR 1998 30-APR 1998 29-APR 1998 30-APR 1998 29-APR 1998 29-APR 1998 30-APR 1998 30-APR 1998 31-MAY 1998 31-MAY

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RESULT 2307
ADG50746
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Best Local S
Matches 15
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25-AUG-1999;
18-FEB-2000;
30-JUL-2001;
                                                                                         Kljavin
Stewart
                                                                                                                     Ferrara
Goddard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention relates to an isolated PRO polypeptide (secreted or transmembrane protein) having at least 80% amino acid sequence identity to an amino acid sequence chosen from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal peptide, a PRO extracellular domain with or without its associated signal peptide). Also included are nucleic acids encoding the PRO proteins mentioned above, a vector comprising a PRO nucleic acid), a host cell comprising the vector and producing PRO, a chimaeric molecule comprising PRO fused to a heterologous amino acid sequence, and an anti-PRO antibody. PRO337 polypeptide is useful for detecting a PRO4993 polypeptide.
New genes and encoded secreted and transmembrane polypeptides, treating e.g. lung or breast tumors, osteoarthritis, rheumatoid arthritis, obesity, diabetes, hyperinsulinemia, hypoinsulinemia
                                                                                                                                                                                                                                                                                                                                                                                                                                            Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic; ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sporter related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New nucleic acid encoding a secreted and transmembrane polypeptide, useful for treating e.g. lung or breast tumors, osteoarthritis, rheumatoid arthritis, obesity, diabetes, hyperinsulinemia,
                                                                                                                                                                                                                                                                     28-MAY-1998;
30-JUL-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11-MAR-2004 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 114; SEQ ID NO 573; 460pp; English.
                                                                                                                                                                                                                                                                                                              19-OCT-2001;
                                                                                                                                                                                                                                                                                                                                                                        US2003207803-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         hypoinsulinemia or wounds.
                                                                                                                                                                              (GETH )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1244 CCTCCGTCCACGTCCTC 1260
                                                            2004-021515/02.
                                                                                                                                                                                                                                                                                                                                                                                                   sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                               healing;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4
                                                                                        TA,
                                                                                                                                                                              GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
                                                                                     i AJ, Baker KP,
N, Filvaroff E,
A, Godowski PJ,
IJ, Kuo SS, Nap
TA, Tumas D, Wi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       618
                                                                                                                                                                                                        98US-0087106P.
98US-0094651P.
99WO-US005028.
99US-00380138.
2000WO-US004341.
2001US-00918585.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                2001US-00143026
                                                                                                                                                                                                                                                                                                                                                                                                                                hearing loss; probe; in situ hybridisation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0.3%;
                                                                                        Napier MA, P
Williams PM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PCR
                                                            J, Botstein D, Dec. Gerbe.
J, Fong S, Gao W, Gerbe.
J, Grimaldi JC, Gurney AL, Hi
J, Gran MA, Pan J, Paoni NF, Tank MA, Wood WI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     probe.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ВP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 13.8; DB 1;
Pred. No. 1.7e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
                                                                                                       Desnoyers L, Eaton L, W, Gerber H, Gerritsen ME;

Anney AL, Hillan KJ;

The Ma Shelt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 24;
                                                                                                     Roy MA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
                                                                                                       Shelton
                               useful
                                                                                                       'n,
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The invention relates to an isolated PRO polypeptide (secreted or CC transmembrane protein) having at least 80% amino acid sequence identity to an amino acid sequence chosen from 94 fully defined sequence as given (CC in the specification (including PRO lacking its associated signal peptide). Also included are nucleic acids encoding the properties of included are nucleic acids encoding the properties of comprising the vector and producing PRO, a chimaeric molecule comprising CC PRO fused to a heterologous amino acid sequence, and an anti-PRO (CC polypeptide in a sample suspected of containing PRO493) polypeptide. Similarly, PRO493 polypeptide is useful for detecting PRO37 (CC polypeptide in a sample suspected of containing PRO493 polypeptide. Similarly, PRO493 polypeptide is useful for detecting PRO37 (CC polypeptide). PRO700 or PRO739. PRO700 or PRO739 polypeptide is useful for detecting PRO375, PRO700 or PRO739. PRO493 polypeptide is useful for detecting PRO493 polypeptide. The bloactive molecule to a cell expressing PRO493 polypeptide. The bloactive molecule is the coxin, radiolabel, or an antibody. The bloactive molecule is coactive molecule is the coxin, radiolabel, or an antibody. The bloactive molecule is coactive molecule to a cell expressing PRO493 polypeptide is useful for linking a bloactive molecule to a cell expressing PRO493 polypeptide is useful for linking a bloactive molecule to a cell expressing PRO493 polypeptide is useful for molecule to a cell expressing PRO725, CC pro700 or PRO739 polypeptide. PRO493 polypeptide is useful for modulating at least one biological activity of the cell expressing PRO493 polypeptide is useful for modulating the biological activity of polypeptide or anti-PRO337 polypeptide is useful for modulating the biological activity of the cell expressing PRO725, anti-PRO700 or anti-PRO739 polypeptide is useful for modulating the profile is a transcript profile. The present sequence is a Tamman PCR probe used investidate PRO or reports and prostidate PRO or receivable profil
                                                      mammals.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 114; SEQ ID
The present sequence is a Taqman PCR probe used investigate lification in certain tumour cell lines.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NO 573;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     English
                                                           PRO
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Sequence 24 BP; 1 A; 14 C; 1 G; 8 T; 0 U; 0 Other;

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밁
             S
                             Query Match
Best Local S
Matches 15
               1244 CCTCCGTCCACGTCCTC 1260
                              15;
                                      Similarity
                              Conservative
                                     88.2%;
20
                              0
                                      Pred. No.
                                            Score 13.8;
                              Mismatches
                                      1.7e+03
                                              DB 1;
                              2
                                            Length
                              Indels
                                              24;
                              0
                             Gaps
                              0,
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RESULT 2308
ADG50122
ID ADG5012
XX ADG5012
XX ADG5012
XY 11-MAR-
XX Human;
KW Human;
KW ophthal
KW auditor
KW auditor
KW auditor
KW articul
KW articul
KW wound h
XX Homo sa
XX Homo sa
XX US20032
                                                                                                                                                               ADG50122
                                                                                                                                                               standard;
                                                                                                                                                               DNA;
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PRO

618

(first entry) Tagman PCR probe

Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostati ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports-related joint problem articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.

Homo sapiens

hypoinsulinemia

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10-MAR-1999
14-MAY-1999
14-MAY-1999
15-AUG-1999
25-AUG-1999
30-NCV-1999
30-DEC-1999
30-MAY-2000
21-MAR-2000
21-MAR-2000
21-MAR-2000
21-MAR-2000
21-MAR-2000
22-MAR-2000
22-MAR-2000
23-MAY-2000
23-MAY-2000
24-AUG-2000
26-EBB-2000
27-MAY-2000
27-MAY-2000
28-EBB-2000
21-MAY-2000
21-MAY-2001
21-MAY-2001
21-MAY-2001
21-MAY-2001
21-MAY-2001
21-MAY-2001
21-MAY-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  05-JAN-1999;
08-MAR-1999;
10-MAR-1999;
The invention relates to an isolated PRO polypeptide (secreted or transmembrane protein) having at least 80% amino acid sequence identity to an amino acid sequence chosen from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal peptide). Also included are nucleic acids encoding the PRO proteins mentioned above, a vector comprising a PRO nucleic acid), a host cell comprising the vector and producing PRO, a chimaeric molecule comprising PRO fused to a heterologous amino acid sequence, and an anti-PRO antibody. PRO337 polypeptide is useful for detecting a PRO493 polypeptide. Similarly, PRO4933 polypeptide is useful for detecting PRO337
                                                                                                                                                                                                                                                            Ferrara
Goddard
Kljavin
Stewart
                                                                                                                                                                                            New PRO nucleic acid, useful diagnosing or treating tumor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        07-OCT-1998;
20-NOV-1998;
                                                                                                                                                                   Example 114; SEQ ID NO 573; 454pp; English.
                                                                                                                                                                                                                                                                                                               Ashkenazi
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Filvaroff E,
Godowski PJ,
                                                                                                                                                                                                                                                                                                                                                                                                   2000WO-US023328
2000WO-US032678
2000WO-US034956
2001WO-US006520
2001WO-US017092
2001WO-US017092
2001WO-US017892
2001WO-US017892
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99WO-US038565

99WO-US031095

99WO-US031274

2000WO-US000277

2000WO-US000277

2000WO-US003565

2000WO-US0035641

2000WO-US005841

2000WO-US005841

2000WO-US006319

2000WO-US006319

2000WO-US006319

2000WO-US007532

2000WO-US007532

2000WO-US013705
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2001WO-US021735.
2001US-00918585.
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2000WO-US015264.
2000WO-US020710.
                                                                                                                                                                                                                                                            Kuo SS, Napier MA, Pa
Tumas D, Williams PM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2001US-00013928
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    99WO-US010733.
99WO-US012252.
99US-00380138.
99WO-US028313.
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99WO-US005028.
99WO-US005190.
99US-0131445P.
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98WO-US024855.
                                                                                                                                                                                                                                                                                                                                        INC.
                                                                                                                                                                                                                                                                       Botstein D. Desnoyers L. Baton DL;
Fong S. Gao W. Gerber H. Gerritsen ME;
Grimaldi JC, Gurney AL, Hillan KJ;
ier MA, Pan J. Paoni NF, Roy MA, Shelt
                                                                                                                                                                                            for manufacturing a medicament for or for tissue typing.
                                                                                                                                                                                                                                                              Wood WI;
                                                                                                                                                                                                                                                                        Shelton
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CC bioactive molecule to a cell expressing PRO493 polypeptide; PRO725, CC PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule to a cell expressing PRO1559 polypeptide; and PRO1559 polypeptide is CC useful for linking a bioactive molecule to a cell expressing PRO725, CC PRO700 or PRO739 polypeptide. PRO4993 polypeptide or anti-PRO337 CC polypeptide is useful for modulating at least one biological activity of the cell expressing PRO337 polypeptide, where the cell is killed PRO337 CC polypeptide or anti-PRO4993 polypeptide is useful for modulating the biological activity of the cell expressing PRO337 PRO739 polypeptide or an anti-PRO1559 polypeptide; PRO735, CC PRO700 or PRO739 polypeptide or an anti-PRO1559 polypeptide; and PRO1559 polypeptide; and PRO1559 polypeptide; and PRO1559 polypeptide; and PRO755, pro700 or PRO739 polypeptide or anni-PRO725, anti-PRO700 or anti-PRO739 polypeptide is useful for modulating the biological activity of the cell expressing PRO700 or PRO739 polypeptide. The CC polypeptides are useful for inhibiting tumour growth, retinal disorders, CC sports-related joint problems, articular cartilage defects, CC secoarthritis or rheumatoid arthritis, wound healing and hearing loss in CC mammals. The present sequence is a Tagman PCR probe used investigate PRO gene amplification in certain tumour cell lines.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting PRO1559 polypeptide, and PRO1559 polypeptide is useful for detecting PRO1559, PRO700 or PRO739. PRO4993 polypeptide is useful for linking a bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive molecule is the toxin, radiolabel, or an antibody. The bioactive molecule causes death of the cell. PRO337 polypeptide is useful for linking a
   Sequence
   24
BP; 1
A; 14 C; 1 G;
8 T; 0 U;
   0 Other;
```

밁 S Matches Query Match 1244 CCTCCGTCCACGTCCTC 1260 4 l Similarity CCTCCGTCCCCTTCCTC Conservative 0.3%; 20 0 Score Pred. Mismatches 13.8; DB 1; No. 1.7e+03; DB 1; 2 Length Indels 0 Gaps

0

RESULT 2309 Human PRO 618 Taqman PCR probe. ADG51994 standard; 11-MAR-2004 (first entry) DNA; 24 BP.

Human; ss, PCR; secreted protein; transmembrane protein; PRO; cytostatic ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; ss; PCR; secreted hearing cytostatic;

Homo sapiens

US2003215908-A1

20-NOV-2003.

19-OCT-2001; 2001US-00162522

06-MAY-1998; 08-MAR-1999; 25-AUG-1999; 30-NOV-1999; 18-FEB-2000; 30-JUL-2001; 98US-0084441P. 99WO-US005028. 99US-00380138. 99WO-US028313. 2000WO-US004341. 2001US-00918585.

(GETH GENENTECH

Ashkenazi A Ferrara N, Goddard A, i AJ, Baker KP, N, Filvaroff E, A, Godowski PJ, Botstein Fong S, Grimaldi Gao JC, Desnoyers L,
D W, Gerber H,
Gurney AL, F Eaton u., Gerritsen N 哥

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ADG49498
ID ADG4
XX
AC ADG4
XX
T 11-1
XX
Hum
KW Hum
KW euch
KW euch
KW auch
KW auch
KW auch
                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention relates to an isolated PRO polypeptide (secreted or curtansmembrane protein) having at least 80% amino acid sequence identity to an amino acid sequence chosen from 94 fully defined sequence identity can the specification (including PRO lacking its associated signal cupptide, a PRO extracellular domain with or without its associated signal comprising the vector and producing PRO, a chimaeric molecule comprising the vector and producing PRO, a chimaeric molecule comprising CC PRO fissed to a heterologous amino acid sequence, and an anti-PRO cantibody. PRO337 polypeptide is useful for detecting a PRO4933 polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting PRO337 polypeptide, and PRO1559 polypeptide is useful for detecting PRO337 polypeptide, and PRO1559 polypeptide is useful for detecting PRO337 polypeptide, and PRO1559 polypeptide is useful for inking a bloactive molecule to a cell expressing PRO337 polypeptide; The bloactive molecule to a cell expressing PRO337 polypeptide; The bloactive molecule to a cell expressing PRO337 polypeptide; PRO705. PRO700 or PRO739 polypeptide and PRO1559 polypeptide; PRO705. PRO700 or PRO739 polypeptide molecule to a cell expressing PRO337 polypeptide; PRO725, PRO700 or PRO739 polypeptide molecule to a cell expressing PRO337 polypeptide; PRO725. PRO700 or PRO739 polypeptide molecule to a cell expressing PRO337 polypeptide; PRO725, CC PRO700 or PRO739 polypeptide molecule to a cell expressing PRO337 polypeptide; PRO725, CC propeptide is useful for modulating at least one biological activity of the cell expressing PRO337 polypeptide is useful for modulating the biological activity of the cell expressing PRO337 polypeptide is useful for modulating the propeptide; PRO735, CC pro730 polypeptide; PRO735, PRO700 or PRO739 polypeptide is useful for modulating the biological activity of the cell expressing PRO337 polypeptide; PRO337 poly
                                                                                                                                                                                                                                       RESULT 2310
                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Kljavin
Stewart
 Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostati ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sporter-related joint problem articular cartilage defects; osteoarthritis; rheumatoid arthritis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New PRO nucleic acid, useful for manufacturing a medicament for diagnosing or treating tumor or for tissue typing.
                                                                                           Human
                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 24
                                                                                                                                                                                                    ADG49498 standard; DNA; 24
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                                                                                           PRO
                                                                                                                                                                                                                                                                                                                                                             1 Similarity
15; Conserv
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                                                                                                                                                                                                                                                                                                                         CCTCCGTCCACGTCCTC 1260
                                                                                           819
                                                                                                                                                                                                                                                                                                                                                             0.3%;
nilarity 88.2%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                    BP; 1
                                                                                                                             (first entry)
                                                                                         Taqman PCR
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∢D,
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Williams
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                                                                                       probe.
                                                                                                                                                                                                                                                                                          20
                                                                                                                                                                                                    ВP
                                                                                                                                                                                                                                                                                                                                                                 0
                                                                                                                                                                                                                                                                                                                                                                              Score 13.8; DB 1;
Pred. No. 1.7e+03;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             English.
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Wood WI;
                                                                                                                                                                                                                                                                                                                                                                                                DB 1; Length 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                    0 Other;
 sports-related joint problem;
s; rheumatoid arthritis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Roy MA,
                                                                                                                                                                                                                                                                                                                                                               0;
                                                      cytostatic;
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                                                                                                                                                                                                                                                                                                                                                                 Gaps
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   20. MAR-1998

20. MAR-1998

20. MAR-1998

20. MAR-1998

25. MAR-1998

26. MAR-1998

27. MAR-1998

27. MAR-1998

27. MAR-1998

27. MAR-1998

30. MAR-1998

31. MAR-1998

31. MAR-1998

31. MAR-1998

31. APR-1998

32. APR-1998

33. APR-1998

34. APR-1998

35. APR-1998

36. APR-1998

37. APR-1998

39. APR-1998

30. APR-1998
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12-MAR-1998;
13-MAR-1998;
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10-MAR-1998;
11-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          17-OCT-1997;
13-NOV-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 25-OCT-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           wound healing; hearing loss; probe; in situ hybridisation.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          18-NOV-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2001US-00013923
98US-007963P

98US-007886P

98US-007963P

98US-007964P

98US-007964P

98US-007964P

98US-007968P

98US-0079789

98US-0079789

98US-0079789

98US-0079789

98US-008014P

98US-008014P

98US-008013P

98US-008014P

98US-008014P

98US-008014P

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98US-008017P

98US-008017P

98US-008018P

98US-008181P

98US-00831P

98US-00831P
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13-MAY-1998

13-MAY-1998

13-MAY-1998

15-MAY-1998

16-MAY-1998

22-MAY-1998

22-MAY-1998

23-DEC-1998

24-MAY-1998

25-JUN-1998

26-JUN-1998

27-MAR-1999

28-MAY-1999

29-MAR-1999

21-APR-1999

21-APR-2000

21-APR-2000

21-MAR-2000

21-MAY-2000

21-MAY-2000

21-MAY-2000

21-MAY-2000

21-MAY-2000

21-MAY-2000

21-MAY-2000

21-MAY-2000

21-MAY-2000
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07-MAY-1998;
07-MAY-1998;
07-MAY-1998;
07-MAY-1998;
07-MAY-1998;
07-MAY-1998;
07-MAY-1998;
  98US-0084441P
98US-008463P
98US-008463P
98US-0084640P
98US-008463P
98US-008533BP
98US-008533BP
98US-0085589P
98US-0085589P
98US-0085589P
98US-0085589P
98US-0085589P
98US-008569P
98US-0086486P
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98US-0086709P
98US-008632P
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98US-008632P
98US-00136259P
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98US-00136259P
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99US-0131232P
99US-01312332P
99US-01303232P
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RESULT 2311
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ID ADG4887
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Best Local S
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28-JUL-2000;
24-AUG-2000;
01-DEC-2000;
20-DEC-2000;
20-DEC-2000;
28-FEB-2001;
22-MAR-2001;
01-JUN-2001;
20-JUN-2001;
29-JUN-2001;
29-JUN-2001;
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Ferrara N,
Goddard A,
Kljavin IJ,
Stewart TA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to an isolated PRO polypeptide (secreted or transmembrane protein) having at least 80% amino acid sequence identity to an amino acid sequence chosen from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal peptide). Also included are nucleic acids encoding the PRO proteins mentioned above, a vector comprising a PRO nucleic acid), a host cell comprising the vector and producing PRO, a chimaeric molecule comprising PRO fused to a heterologous amino acid sequence, and an anti-PRO antibody. PRO337 polypeptide is useful for detecting a PRO4993 polypeptide in useful for detecting a PRO4993 polypeptide is useful for detecting a PRO4993 polypeptide.
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                                                                                                                                          Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
     20-NOV-2003.
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                                                                                                                                                                                                                                                                                                                                                                                           ADG48874;
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Filvaroff E, Fong S, Ga
Godowski PJ, Grimaldi JC,
KMO SS, Napier MA, Par
L, Tumas D, Williams PM,
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2000WO-US0230710.

2000WO-US02332678.

2000WO-US034956.

2000WO-US03659.

2001WO-US006520.

2001WO-US017092.

2001WO-US017809.

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2001WO-US017809.

2001WO-US0178585.
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                                                                                                                                                                                                                                                                                                                                         entry)
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pred. No. 1.7e
0; Mismatches
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.7e+03 DB 1. 2;

Length

24;

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Gaps

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cytostatic;

English.

, Eaton DL; H, Gerritsen ME; Hillan KJ; , Roy MA, Shelto

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ADG51370
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Best Local Similarity
Matches 15; Conserv
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01-JUN-2001; 2001WO-US017800.
20-JUN-2001; 2001WO-US019692.
29-JUN-2001; 2001WO-US021066.
09-JUL-2001; 2001WO-US021735.
30-JUL-2001; 2001US-00918585.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   rne invention relates to an isolated PRO polypeptide (secreted or transmembrane protein) having at least 80% amino acid sequence identity to an amino acid sequence chosen from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal peptide, a PRO extracellular domain with or without its associated signal peptide). Also included are nucleic acids encoding the PRO proteins mentioned above, a vector comprising a PRO nucleic acid), a host cell comprising the vector and producing PRO, a chimaeric molecule comprising PRO fused to a heterologous amino acid sequence, and an anti-PRO antibody, PRO337 polypeptide is useful for detecting a PRO4993 polypeptide. Similarly, PRO4993 polypeptide is useful for detecting a PRO4993 polypeptide.
             15-APR-1998;
08-MAR-1999;
25-AUG-1999;
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Goddard
Kljavin
Stewart
                                                                                                                                                                                 ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New PRO polypeptide useful for treating peripheral neuropathy, neuropathies associated with systemic disease such as post-polio syndrome or acquired immunodeficiency syndrome-associated syndrome.
                                                                     18-OCT-2001;
                                                                                                  08-JAN-2004.
                                                                                                                            US2004005312-A1
                                                                                                                                                        Homo sapiens.
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                                                                                                                                                                                                                                                                                                                                                         standard;
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                                                                                                                                                                                                                                         PCR; secreted protein; transmembrane protein; PRO;
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Filvaroff E,
Godowski PJ,
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Tumas D,
                                                                      2001US-00145093.
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98US-0081952P.
99WO-US005028.
99US-00380138.
99WO-US028313.
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Williams PM,
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Fong S, Gao W, Gerk
Grimaldi JC, Gurney
pier MA, Pan J, Paoni
illiams PM, Wood WI;
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Pred. No. 1.
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W, Gerber H, Gerritse
Gurney AL, Hillan KJ;
J, Paoni NF, Roy MA,
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ADG59314 ID ADG5 XX

ADG59314 standard;

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1244 CCTCCGTCCACGTCCTC

1260

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Pred. No. 1.70 0; Mismatches Score 13.8;

.7e+03; DB 1;

Length 24;

0

Gaps

0

20

Best Loc Matches Query Match

Local

Similarity

0.3%;

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CC transmembrane protein) having at least 80% amino acid sequence identity con a manno acid sequence chosen from 94 fully defined sequence identity con the specification (including PRO lacking its associated signal peptide). Also included are nucleic acid encoding the PRO proteins comprising the vector and producing PRO, a chimaeric molecule comprising the vector and producing PRO, a chimaeric molecule comprising comprising the vector and producing PRO, a chimaeric molecule comprising comprising the vector and producing PRO, a chimaeric molecule comprising CC palypeptide is useful for detecting a PRO493 polypeptide. PRO703 polypeptide is useful for detecting PRO337 polypeptide. PRO700 or PRO739 polypeptide is useful for detecting PRO337 polypeptide. PRO700 or PRO739 polypeptide is useful for detecting PRO337 polypeptide. PRO700 or PRO739 polypeptide is useful for detecting PRO337 polypeptide. PRO700 or PRO739 polypeptide is useful for inking a bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive molecule is the toxin, radiolabel, or an antibody. The bioactive molecule is the toxin, radiolabel, or an antibody. The bioactive molecule is useful for linking a bioactive molecule to a cell expressing PRO337 polypeptide is useful for linking a cell expressing PRO337 polypeptide is useful for linking a bioactive molecule to a cell expressing PRO359 polypeptide. PRO725, pro700 or PRO739 polypeptide pro8337 polypeptide is useful for linking a bioactive molecule to a cell expressing PRO337 polypeptide is useful for linking a bioactive molecule to a cell expressing PRO337 polypeptide is useful for linking a bioactive molecule or a cell expressing PRO337 polypeptide is useful for modulating the biological activity of the cell expressing PRO337 polypeptide is useful for modulating the pro725, pro700 or PRO739 polypeptide is useful for modulating the pro725, pro700 or modulating the pro725, pro700 or modulating the biological activity of the cell expressing PRO359 polypeptide. The pro700 or pro739 polypep
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Kljavin
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30-JUL-2001; 2001US-00918585.
Sequence
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Filvaroff E,
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Kuo SS, Na
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Williams PM,
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Fong S, Gao W, Geri
Grimaldi JC, Gurney
pier MA, Pan J, Paon.
illiams PM, Wood WI;
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W, Gerber H, Gerritsen
Gurney AL, Hillan KJ;
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Paoni NF,
   0 Other;
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PRO

618 Taqman PCR probe.

cytostatic;

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(first entry)

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CC transmembrane protein) having at least 80% amino acid sequence as given in the specification (including PRO) lacking its associated signal compiled, a pRO extracellular domain with or without its associated signal compiled. Also included are nucleic acids encoding the pRO proteins comprising the vector comprising PRO, a chimaeric molecule comprising the vector and producing PRO, a chimaeric molecule comprising the vector and producing PRO, a chimaeric molecule comprising CC pRO fused to a heterologous amino acid sequence, and an anti-PRO cc palypeptide in a sample suspected of containing PRO493 polypeptide. PRO715, PRO700 or PRO739 polypeptide is useful for detecting a PRO337 cc polypeptide. PRO715, PRO700 or PRO739 polypeptide is useful for detecting PRO337 cc profits polypeptide. PRO739. PRO493 polypeptide is useful for linking a cc molecule is the toxin, radiolabel, or an antibody. The bloactive molecule to a cell expressing PRO337 polypeptide. The bloactive molecule to a cell expressing PRO337 polypeptide. PRO725, PRO700 or PRO739 polypeptide are useful for linking a bloactive molecule to a cell expressing PRO337 polypeptide. PRO725, Cc pRO700 or PRO739 polypeptide are useful for linking a bloactive molecule to a cell expressing PRO337 polypeptide is useful for linking a bloactive molecule constituted is useful for linking a bloactive molecule to a cell expressing PRO337 polypeptide is polypeptide is collypeptide. PRO725, Cc pRO700 or PRO739 polypeptide. PRO493 polypeptide; pRO725, Cc pRO700 or PRO739 polypeptide. PRO493 polypeptide or anti-PRO337 cc polypeptide or anti-PRO337 polypeptide is useful for linking a bloactive molecule to a cell expressing PRO337 polypeptide is useful for profits. PRO337 cc polypeptide or anti-PRO337 polypeptide is useful for profits. PRO337 cc profits a cetivity of the cell expressing pRO339 polypeptide is useful for modulating the biological activity of the cell expressing PRO359 polypeptide is useful for modulating the useful for modulating the biological activity of the c
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08-MAR-1999;
25-AUG-1999;
30-NOV-1999;
18-FEB-2000;
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Goddard
Kljavin
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to an is transmembrane protein) having
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New secreted and transmembrane PRO polypeptides and nucleic acid molecules, useful in gene therapy, or for diagnosing and treating neoplastic cell growth and proliferation, diabetes or cardiac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 114; SEQ ID NO 573; 463pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         insufficiency disorders in mammals.
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N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;
IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelt TA, Tumas D, Williams PM, Wood WI;
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; 99WO-US005028.
; 99WS-00380138.
; 99WO-US028313.
; 2000WO-US028313.
; 2000WO-US004341.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           isolated PRO polypeptide (secreted or ng at least 80% amino acid sequence identity
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RESULT 2314
ADG62770
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Best Local S
Matches 15
 13-NOV-1997
21-NOV-1997
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111-MAR-1998
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111-MAR-1998
120-MAR-1998
20-MAR-1998
20-MAR-1998
20-MAR-1998
27-MAR-1998
28-APR-1998
29-APR-1998
29-APR-1998
29-APR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      polypeptide; and PRO1559 polypeptide or anti-PRO725, anti-PRO700 or ant PRO739 polypeptide is useful for modulating the biological activity of the cell expressing PRO725, PRO700 or PRO739 polypeptide. The polypeptides are useful for inhibiting tumour growth, retinal disorders sports-related joint problems, articular cartilage defects, osteoarthritis or rheumatoid arthritis, wound healing and hearing loss mammals. The present sequence is a Tagman PCR probe used investigate PR gene amplification in certain tumour cell lines.
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; BS; PCR; secreted protein; transmembrane protein; PRO; cytostatic ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADG62770 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human PRO
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                        US2004006219-A1
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98US-0077791P
98US-0078886P
98US-0078910P
98US-0078916P
98US-0079636P
98US-0079656P
98US-0079664P
98US-0079664P
98US-0079786P
98US-0079728P
98US-0079728P
98US-0079728P
98US-0079728P
98US-0079728P
98US-0079728P
98US-0079920P
98US-0083495P
98US-0083495P
98US-0083495P
98US-0083495P
98US-0083495P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Taqman PCR probe.
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98US-0077450P.
98US-0077632P.
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Pred. No. 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cytostatic;
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CC transmembrane protein) having at least 80% amino acid sequence dentity
CC in the specification (including PRO lacking its associated signal
CC peptide, a PRO extracellular domain with or without its associated signal
CC peptide, Also included are nucleic acids encoding the PRO proteins
CC mentioned above, a vector comprising a PRO nucleic acid), a host cell
CC comprising the vector and producing PRO, a chimaeric molecule comprising
CC PRO fused to a heterologous amino acid sequence, and an anti-PRO
CC antibody. PRO337 polypeptide is useful for detecting a PRO493
CC Similarly, PRO493 polypeptide is useful for detecting a PRO493
CC Similarly, PRO705, PRO700 or PRO739 polypeptide is useful for detecting
CC PRO725, PRO700 or PRO739. PRO4933 polypeptide is useful for detecting
CC PRO725, PRO700 or PRO739. PRO4933 polypeptide is useful for linking a
CC bloactive molecule to a cell expressing PRO493 polypeptide. The bloactive
CC causes death of the cell. PRO337 polypeptide is useful for linking a
CC PRO700 or PRO739 polypeptide is useful for rinking a
CC PRO700 or PRO739 polypeptide is useful for rinking a
CC PRO700 or PRO739 polypeptide is useful for rinking a
CC PRO700 or PRO739 polypeptide is useful for rinking a
CC polypeptide or a cell expressing PRO493 polypeptide is useful for rinking a
CC polypeptide or PRO739 polypeptide is useful for rinking a
CC polypeptide or PRO739 polypeptide, and PRO1559 polypeptide is
CC polypeptide or polypeptide. PRO493 polypeptide is useful for modulating the bloogical activity of the cell expressing PRO337
CC polypeptide or anti-PRO337 polypeptide, where the cell is killed. PRO337
CC polypeptide or anti-PRO337 polypeptide is useful for modulating the bloogical activity of the cell expressing PRO599 polypeptide is useful for modulating the properiod is useful for properiod in the properio
           02-MAR-2000

10-MAR-2000

21-MAR-2000

30-MAR-2000

21-MAY-2000

22-MAY-2000

30-MAY-2000

30-MAY-2000

30-MAY-2000

24-AUG-2000

24-AUG-2000

21-DEC-2000

20-DEC-2000

28-FEB-2001

25-MAR-2001

25-MAR-2001

01-UN-2001

01-UN-2001

01-UN-2001
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Ferrara N,
Goddard A,
Kljavin IJ,
Stewart TA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Novel secreted and transmembrane PRO polypeptides useful for treating diabetes, kidney disorders (Berger disease, celiac disease), pericyteassociated tumors, arthritis and cardiac insufficiency disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 114; SEQ ID NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (GETH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           invention relates
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2000WO-US006319.
2000WO-US007532.
2000WO-US008439.
2000WO-US013705.
2000WO-US014941.
2000WO-US015264.
2000WO-US023328.
2000WO-US023328.
2000WO-US032678.
2000WO-US032678.
2000WO-US034956.
2001WO-US006520.
2001WO-US017092.
2001WO-US017092.
2001WO-US017365.
2001WO-US0217356.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           to an isolated PRO
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H, Gerritsen Millan KJ;
, Roy MA, Sh
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26-JUN-1998; 26-JUN-1998; 01-JUL-1998; 30-JUL-1998;

98US-0083545P 98US-0083558P 98US-0083558P 98US-0083558P 98US-0084414P 98US-0084491P 98US-0084600P 98US-0084630P 98US-0084639P 98US-0084639P 98US-0085697P 98US-0085582P 98US-0085697P 98US-0086486P 98US-0086486P 98US-0086486P 98US-0086486P 98US-0086486P 98US-0086486P 98US-0113621P 98US-0086486P 98US-01313232P 98US-01313232P 99US-01313232P 99US-01313232P 99US-0146680P 99US-01313232P 99US-0146680P 99US-01313232P 99US-0146680P 99US-0146680P 99US-01313232P 99US-0146680P 99US-0146680P 99US-0146680P 99US-01466250P 99US-0146680P 99US-0146680P 99US-0130232P 99US-0146680P 99US-0130232P 99US-0146680P 99US-0146680P 99US-01302313 99US-01302313 99US-01302313 99US-013023551 99US-013023551 99US-01303323 99US-01303333 99US-01303323 99US-01303333 99US-013033

13-MAY-1998 13-MAY-1998 13-MAY-1998 15-MAY-1998 15-MAY-1998 15-MAY-1998 15-MAY-1998 15-MAY-1998 15-MAY-1998

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RESULT 2315
ADM17572
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Best Local Similarity
Matches 15; Conserv
The invention relates to an isolated PRO polypeptide (secreted or transmembrane protein) having at least 80% amino acid sequence identity to an amino acid sequence chosen from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal peptide, a PRO extracellular domain with or without its associated signal peptide). Also included are nucleic acids encoding the PRO proteins mentioned above, a vector comprising a PRO nucleic acid), a host cell comprising the vector and producing PRO, a chimaeric molecule comprising PRO fused to a heterologous amino acid sequence, and an anti-PRO antibody. PRO337 polypeptide is useful for detecting a PRO4993 polypeptide in a sample suspected of containing PRO4993 polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                08-MAR-1999;
25-AUG-1999;
29-OCT-1999;
02-DEC-1999;
18-FEB-2000;
                                                                                                                                                                                                                                                                                                                    Kljavin
Stewart
                                                                                                                                                                                                                                                                                                                                              Ferrara
Goddard
                                                                                                                                                                                                              New secreted and transmembrane PRO polypeptides and nucleic acid molecules, useful in gene therapy, or for diagnosing and treating neoplastic cell growth and proliferation, diabetes or cardiac insufficiency disorders in mammals.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary; auditory; tumour growth; retinal disorder; sports-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation.
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                                                                                                                                                                                 Example 114; SEQ ID NO 573; 461pp; English.
                                                                                                                                                                                                                                                                                       WPI; 2004-238493/22.
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                                                                                                                                                                                                                                                                                                                                                                              Ashkenazi
                                                                                                                                                                                                                                                                                                                                                                                                        (GETH )
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         amplification in certain tumour cell lines.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRO 618 Taqman PCR probe.
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Filvaroff E,
                                                                                                                                                                                                                                                                                                                 , Godowski PJ,
J, Kuo SS, Nag
A, Tumas D, Wi
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99WS-US005028.
99US-00380138.
99US-0162506P.
99WS-US0028551.
2000WS-US0028551.
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, Williams PM,
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                                                                                                                                                                                                                                                                                                               Botstein D, Desnoyers L, Eaton DL;
Fong S, Gao W, Gerber H, Gerritsen ME;
Grimaldi JC, Gurney AL, Hillan KJ;
ier MA, Pan J, Paoni NF, Roy MA, Shelt
lliams FM, Wood WI;
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Pred. No. 1.
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CC Similarly, PRO4993 polypeptide is useful for detecting PRO337 CC polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting PRO155, PRO700 or PRO739. PRO4993 polypeptide is useful for detecting CC PRO725, PRO700 or PRO739. PRO4993 polypeptide is useful for linking a CC bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive molecule is the toxin, radiolabel, or an antibody. The bioactive molecule causes death of the cell. PRO337 polypeptide is useful for linking a CC pro700 or PRO739 polypeptide are useful for linking a bioactive molecule to a cell expressing PRO493 polypeptide; PRO725, CC PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule to a cell expressing PRO725, CC pro700 or PRO739 polypeptide. PRO493 polypeptide is useful for modulating at least one biological activity of the cell expressing PRO337 polypeptide is useful for modulating the pro725, pro700 or PRO739 polypeptide or anti-PRO493 polypeptide is useful for modulating the biological activity of the cell expressing PRO725, pro700 or PRO739 polypeptide or anti-PRO4993 polypeptide is useful for modulating the biological activity of the cell expressing PRO725, pro700 or PRO739 polypeptide or anti-PRO725, anti-PRO739 polypeptide or anti-PRO725, anti-PRO700 or anti-PRO739 polypeptide is useful for modulating the biological activity of the cell expressing PRO559 polypeptide. The professing PRO725, PRO700 or PRO739 polypeptide or anti-PRO725, anti-PRO700 or anti-PRO739 polypeptide is useful for modulating the biological activity of the cell expressing PRO559 polypeptide. The professing PRO559 polypeptide or anti-PRO725, anti-PRO700 or anti-PRO739 polypeptide or anti-PRO739 polypeptide. The professing PRO559 polypeptide or anti-PRO739 polypeptide. The professing PRO559 polypeptide or anti-PRO739 polypeptide. The professing PRO550 polypeptide or anti-PRO739 polypeptide. The professing PRO550 polypeptide or anti-PRO739 polypeptide. The professing PRO550 polypeptide or anti-PRO739 polypeptide. The pro
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Sequence 24 BP; 1 A; 14 C; 1 G; 8 T; 0 U; 0 Other;

S Query Match
Best Local Similarity
Matches 15; Conserv 1244 CCTCCGTCCACGTCCTC 1260 Conservative 0.3%; 0; Score 13.8; Pred. No. 1 Mismatches .7e+03; BB 1; <u>ب</u> Length Indels 0 Gaps 0

밁 17-JUN-2004 ADL07406 standard; 4 CCTCCGTCCCCTTCCTC (first entry) DNA; 24 20

Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostat ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary auditory; tumour growth; retinal disorder; sports-related joint proble articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; probe; in situ hybridisation. problem;

Human PRO 618 Taqman PCR probe.

Homo sapiens

RESULT 2316
ADL0740
ID ADL0740
XX ADL0740
AC ADL0740
XX Human;
EX Human;
KW Ophthal
KW articul
KW articul
KW wound l
XX Homo si
XX H 26-UN-1998; 07-OCT 1998; 07-OCT 1998; 02-NOV-1998; 06-NOV-1998; 20-NOV-1998; 20-NOV-1998; 27-DEC-1998; 22-DEC-1998; 05-JAN-1999; 05-MAR-1999; 17-MAR-1998; 25-OCT-2001; 2001US-00013917. 98WO-US021141. 98US-00184216. 98US-00187368. 98WO-US024855. 98US-00202054. 98US-00218517. 99WO-US000106. 98US-00168978. 98WO-US021141. 98US-00105413. 98US-00040220

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02-JTN-1999
25-AUG-1999
25-AUG-1999
30-NOV-1999
30-DEC-1999
30-DEC-1900
21-FEB-2000
21-FEB-2000
21-MAR-2000
21-MAR-2000
21-MAR-2000
30-MAR-2000
31-MAR-2000
                                                                                                                                         Ashkenazi A. Ferrara N, Goddard A, Kljavin IJ, Stewart TA,
                                                                                                                   WPI; 2004-282524/26.
                                                                                                                                                                                                                         GENENTECH INC.
                                                                                                                                        I AJ, Baker KP,
N, Filvaroff E,
A, Godowski PJ,
IJ, Kuo SS, Nap
TA, Tumas D, Wi
                                                             polynucleotides and polypeptides, used as molecular weight and are useful in chromosome mapping and tissue typing and tumors.
                                                                                                                                                                                                                                               2000WO-US000219
2000WO-US000376
2000WO-US0003565
2000WO-US004341
2000WO-US005044
2000WO-US0050841
2000WO-US0050841
2000WO-US007532
2000WO-US013705
2000WO-US013705
2000WO-US013705
2000WO-US013705
2000WO-US015264
2000WO-US023328
2000WO-US023374
2000WO-US023374
2000WO-US023374
2000WO-US0332678
2000WO-US032678
2000WO-US034956
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 99WO-US010733.
99WO-US012252.
99US-00380138.
99US-00380142.
99WO-US028313.
99WO-US028551.
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99WO-US031095.
99WO-US031243.
99WO-US031274.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              99US-00311832.
99US-00380137.
                                                                                                                                        KP, Botstein D, Desnoyers L, Eaton DL;
F E, Fong S, Gao W, Gerber H, Gerritsen ME;
PJ, Grimaldi JC, Gurney AL, Hillan KJ;
Napier MA, Pan J, Paoni NF, Roy MA, Shelt,
Williams PM, Wood WI;
                                                                                                                                                         Shelton
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cc in the specification (including PRO lacking its associated signal cc ipeptide). Also included are mucleic acids encoding the PRO proteins comprising the associated signal compationed above, a vector comprising a PRO mucleic acid), a host cell comprising the vector and producing PRO, a chimaeric molecule comprising comprising the vector and producing PRO, a chimaeric molecule comprising the vector and producing PRO, a chimaeric molecule comprising comprising a PRO493 polypeptide is useful for detecting a PRO493 polypeptide. PRO735, PRO700 or PRO735, PRO700 or PRO739 polypeptide is useful for detecting PRO337 polypeptide. PRO725, PRO700 or PRO739. PRO493 polypeptide is useful for detecting PRO355 polypeptide is useful for detecting PRO355 polypeptide. PRO725, PRO700 or PRO739. PRO493 polypeptide is useful for detecting PRO357 polypeptide is useful for detecting PRO357 propeptide. PRO725, PRO700 or PRO739. PRO493 polypeptide is useful for detecting PRO357 polypeptide is useful for PRO555 polypeptide. PRO725, PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule to a cell expressing PRO337 polypeptide; PRO725, PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule to a cell expressing PRO357 polypeptide; PRO725, PRO700 or PRO739 polypeptide is useful for modulating at least one biological activity of the cell expressing PRO337 polypeptide; pRO725, PRO700 or PRO739 polypeptide or anti-PRO337 polypeptide; PRO725, PRO700 or PRO739 polypeptide or an anti-PRO339 polypeptide is useful for modulating the biological activity of the cell expressing PRO337 polypeptide; PRO725, PRO700 or PRO739 polypeptide or an anti-PRO339 polypeptide; pRO725, PRO700 or PRO739 polypeptide; PRO725, PRO700
                                  Ś
                                                                                                                                                                              밁
                                                                                     Query Match
Best Local S
Matches 15
                                                                                                                                                                              Sequence
                                         1244 CCTCCGTCCACGTCCTC 1260
                                                                                     l Similarity
15; Conserv
4
                                                                                                                                                                              24
                                                                                   0.3%;
ilarity 88.2%;
Conservative
                                                                                                                                                                           BP; 1
                                                                                                                                                                           A;
                                                                                                                                                                              14 C; 1
20
                                                                                   0
                                                                                   Score 13.8; DB 1,
Pred. No. 1.7e+03,
0; Mismatches
                                                                                                                                                                              ດ
                                                                                                                                                                              8 T; 0 U;
                                                                                                                                                                                0 Other;
                                                                                                                             Length 24;
                                                                                        Indels
                                                                                        0
                                                                                        Gaps
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RESULT 2317 ABV80977 ABV80977 standard; DNA; 25 BP

Human 03-JAN-2003 ABV80977; HTPL scanning (first entry) oligonucleotide SEQ Ü

Human; gene therapy; tumour suppressor; HTPL; chromosome 10p12.1; human testis expressed Patched like protein; testis; adrenal; liver; male germ cell development; bone marrow; brain; kidney; lung; placenta; prostate; skeletal muscle; colon; male infertility; cancer; ss. 07-AUG-2002 EP1229046-A2 sapiens

ij

2002EP-00001167

30-JAN-2001; 30-JAN-2001; 30-JAN-2001; 2001WO-US000663. 2001WO-US000664. 2001WO-US000665.

The invention transmembrane

relates to an isolated PRO polypeptide (secreted protein) having at least 80% amino acid sequence

or identity

Example 114; SEQ ID

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573; 464pp; English

and

polynucleotides

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention relates to human testis expressed Patched like protein (HTPL, see ABV78759 to ABV78762 and ABB98519 to ABB98520). HTPL has two isoforms, with a few single base pair differences between the two. One of the single base pair changes introduces a premature stopy codon in HTPL-S (S for short) compared to HTPL-L (L for long). HTPL shares an overall structure organisation with the Patched protein. The shared structural features strongly imply that HTPL plays a role similar to that of Patched, and is a potential tumour suppressor. HTPL is important in regulating male germ cell development, and the HTPL gene was mapped to human chromesome 10pl2.1. HTPL and its coding sequence are useful for diagnosing a disorder caused by mutation in HTPL, and in therapy and manufacture of a medicament for treatment or prevention of such disorder associated with decreased expression or activity of human HTPL. Such disorders include disorders of testis, or adrenal, adult and foetal liver, bone marrow, brain, kidney, lung, placenta, prostate, skeletal muscle or colon function. HTPL proteins and nucleic acids are clinically useful diagnostic markers and potental therapeutic agents for manner in from the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   30-JAN-2001;
30-JAN-2001;
30-JAN-2001;
23-MAY-2001;
Homo sapiens
                                                                                                            Addison's disease; atrophic gastritis; degenerative nervous system disease; multiple sclerosis; Alzheimer's disease; hypersensitivity; disease; type I hypersensitivity; Goodpasture's syndrome; allergy; type II hypersensitivity; Goodpasture's syndrome; type IV hypersensitivity; leprosy; infectious disease; viral infection; HIV; fungal infection; Candida; parasitic infection; schistosome; filaria; bacterial infection; Mycobacterium; neoplastic disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human Vbeta gene repeat sequence #70.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Novel isolated human testis expressed Patched like protein (HTPL), useful for identifying agonist and antagonist and specific binding partners, and for treating subjects having defects in HTPL.
                                                                                                                                                                                                                                                                                                                        numan; r-cell associated disease; Vbeta; autoimmune disease; degenerative nervous system disease; graft versus host disease; hypersensitivity disease; infectious disease; neoplastic dise
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      25-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADH70280 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  example from the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2002-676582/73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        09-OCT-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (AEOM-)
                                                                                     ymphoproliferative disease; leukaemia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1224 GACCAGCAGCTCTCCCCGGGCCTCC 1248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       18;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GGCAAGCAGCCACCCCGGGACCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Page 355;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BP; 5 A; 13 C; 7 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; 2001WO-US000667.
; 2001WO-US000668.
; 2001WO-US000669.
; 2001US-00864761.
; 2001US-0327898P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 13.8; D
Pred. No. 1.8e
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              25
                                                                                        lymphoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     .8e+03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 1; Length 25
                                                                                        cancer; brain cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                               disease;
                                                                                                                                                                                                                                                                                                                                               disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
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Key allele

Location/Qualifiers replace(7, -)

Mammalia.

tnerapy; allelic

[nterleukin-12;

IL-12 p40; autoimmune disease; Th1/Th2 dysregulation; c variant; insulin dependant diabetes mellitus; IDDM;

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0

Mammalian IL-12 p40 intron 2 allelic variant #1.

AAD19287;

18-DEC-2001

(first entry)

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RESULT 2319
AAD19287/c
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                                                                                                                                                                                                                                                                                                                                                                                    Matches
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  including autoimmune diseases, degenerative nervous system diseases, graft versus host disease, hypersensitivity diseases, infectious diseases and neoplastic diseases, Autoimmune diseases include Addisease include Addisease, atrophic gastritis. Degenerative nervous system diseases include multiple sclerosis and Alzheimer's disease. Hypersensitivity diseases include Type I hypersensitivities such as contact with allergens that lead to allergies, Type II hypersensitivities such as those present in Goodpasture's syndrome and Type IV hypersensitivities such as those manifested in leprosy. Infectious diseases include viral infections caused by viruses such as HIV, fungal infections such as those caused by schistosomes, filaria and bacterial infections such as those caused by Mycobacterium. Neoplastic diseases include lymphoproliferative diseases such as lekaemias, lymphomas and cancers such as cancer of the brain, second such as those caused by such as lekaemias, lymphomas and cancers such as cancer of the brain,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to a kit for diagnosing and treating T-cell associated diseases which comprises a panel of nucleic acid primers specifically priming and allowing amplification of each Wbeta gene, VbetaRNA or CDNA. The kit is useful for diagnosing organ transplant rejection and diagnosing and treating T-cell associated diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Kit for diagnozing and treating T-cell associated diseases e.g. autoimmune, degenerative nervous system and infectious disease, comprises nucleic acid primers specifically priming and allowing amplification of a
                                                                                                                                                                                                                                  AAD19287 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure; SEQ ID NO 474; 164pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2004-059052/06
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  17-OCT-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                19-SEP-1994;
19-SEP-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   05-MAR-1999;
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(ROWE/) ROWEN L.
                                                                                                                                                                                                                                                                                                                                            4415 TAATAATAATATTAATAATAATAAT 4439
                                                                                                                                                                                                                                                                                                                                                                                      18;
                                                                                                                                                                                                                                                                                                                       N
                                                                                                                                                                                                                                                                                                                                                                                                       Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present sequence represents a Vbeta gene repeat sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                        28 BP; 9 A; 0 C; 0 G;
                                                                                                                                                                                                                                                                                                                    TATTATTATTATTATTATTATTATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Rowen L;
                                                                                                                                                                                                                                                                                                                                                                                      Conservative
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                                                                                                                                                                                                                                  DNA;
                                                                                                                                                                                                                                                                                                                                                                                                     0.3%;
                                                                                                                                                                                                                                   32
                                                                                                                                                                                                                                                                                                                                                                                      <u>,,</u>
                                                                                                                                                                                                                                                                                                                                                                                                     Score 13.8;
Pred. No. 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                        19 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
                                                                                                                                                                                                                                                                                                                     26
                                                                                                                                                                                                                                                                                                                                                                                                     8; DB 1;
2e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                       Length
                                                                                                                                                                                                                                                                                                                                                                                      Indels
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                                                                                                                                                                                                                                                                                                                                                                                      Gaps
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modified_base

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RESULT 2320
AAQ30397
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                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity
Matches 18; Conserv
                                                                                                                                                                                                                                                                                                                      The patent discloses a method of screening mammals for autoimmune diseases by identifying polymorphisms in interleukin (IL)-12 p40 gene. The methods and kits of the invention are used for screening individuals, families and populations for disease conditions or predispositions for the development of a disease condition which is characterised, exacerbated or associated with Thl/Th2 dysregulation in a mammal. They are used to treat, prevent or diagnose autoimmune diseases such as IDDM (Insulin dependant diabetes mellitus). The present DNA sequence is mammalian IL-12 p40 intron 2 allelic variant
                                                                                                                                                    25-MAR-2003
07-DEC-1992
                      modified_base
                                                                                   Synthetic.
                                                                                                         Human leukocyte adhesion protein; p150,95 alpha subunit gene;
herpes simplex; AIDS; modified; HIV; RSV; HPV; malignancy; hepatitis;
                                                                                                                                  Oligomer LAP322 for forming triplex with HUMINT02 target duplex
                                                                                                                                                                             AAQ30397;
                                                                                                                                                                                                                                                                                                        Sequence 32 BP; 21
                                                                                                                                                                                                                                                                                                                                                                                                                          Screening mammals for autoimmune diseases such as diabetes, comprises identifying polymorphisms in interleukin (IL)-12 p40.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      27-MAR-2000; 2000AU-00006466.
15-MAY-2000; 2000US-0204366P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         allele
                                                         modified_base
                                                                                                    inflammation;
                                                                                                                                                                                            AAQ30397 standard; DNA; 36 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2001-611629/70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              27-MAR-2001; 2001WO-AU000340
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               04-OCT-2001.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        allele
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (HALL-) HALL INST MEDICAL RES WALTER & ELIZA
                                                                                                                                                                                                                                                      4415
                                                                                                                                                                                                                                                                                                                                                                                                           17; Page 42;
                                                                                                                                                                                                                                       29
                                                                                                                                                                                                                                                    TAATAATAATATTAATAATAAT 4439
                                                                                                                                                                                                                                                                      0.3%;
ilarity 72.0%;
Conservative
                                                                                                                                                   (revised)
(first entry)
                                                                                                    88.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /*tag= a
replace(8,
/*tag= b
replace(9,
/*tag= c
                                /mod_base= OTHER
/note= "OTHER= N6 methyl-8-oxo
                                                                  Location/Qualifiers
        /*tag= b
/mod_base= OTHER
                                                                                                                                                                                                                                                                                                        A; 0 C; 1 G; 10 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                           115pp; English
"OTHER= N6 methyl-8-oxo 2' deoxyadenine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ٢
                                                                                                                                                                                                                                                                       0;
                                                                                                                                                                                                                                                                              Score 13.8;
Pred. No. 2
                                                                                                                                                                                                                                                                      Mismatches
                                                                                                                                                                                                                                                                               2.1e+03;
                                                                                                                                                                                                                                                                                        DB 1;
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                                                                                                                                                                                                                                                                                      Length 32;
                                deoxyadenine"
                                                                                                                                                                                                                                                                       Indels
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                                                                                                                                                                                                                                                                       Gaps
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pH with a purine rich target sequence by coupling into the major groove of the duplex. The specific target sequence of this oligomer is the human cleukocyte adhesion protein p150, 95 alpha subunit gene (HUMINTO2) beginning at nucleotide 2370 contg. a purine rich sequence concd. on one strand of the duplex. The oligomer, and others like it are useful in cliances, e.g. HPV; HER; HIV, hepatitis B, herpes, malignant tumours and inflammation. The triple helices form under mild conditions thus assays can o-xyloso dimer synthout subjecting the test specimen to harsh conditions. The oligomer contains an inverted polarity region formed from an o-xyloso dimer synthon. The linking gp. is o-xyloso (nucleotides have the 3' positions of xylose sugars linked via the o-xylene ring). Two nucleotides are coupled through a xylene residue to form the dimer cuclease activity. The oligomer is able to inhibit gene expression, as verified by in vitro systems. See also AAQ25452-25501 and AAQ30226-448.
                                                                                                                                                                                                                                                                                                                                                                                                 New oligomers contg. modified bases - doublet in a DNA duplex, for treating herpes malignancy and inflammation.
                                                                                                                                                                                                                                                                                                                       The synthetic oligomer is capable of forming a triplex at physiological
                                                                                                                                                                                                                                                                                                                                                              Claim 12; Page 70; 77pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Froehler B,
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18-JAN-1991;
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17-APR-1991;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Krawczyk S,
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91US-00643382.
91US-00683420.
91US-00686544.
91US-00686546.
91US-00686547.
91US-00766733.
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Matches 16
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                                                                             Sequence
                                                                                                   Revised record
                                                                                                                     The present invention relates to human oligonucleotides comprising a single nucleotide polymorphic site (SNP: AAH88797-AAH89219). The present sequence is one such oligonucleotide. The oligonucleotide are because foremaics, paternity testing, correlation of polymorphisms with phenotypic traits, genetic mapping of phenotypic traits and marker assisted breeding of animals and crop plants
                                                                                                                                                                                                  Claim 68; Page 11; 43pp; English.
                                                                                                                                                                                                                     New polymorphic sites derived from the human genome are useful to determine sites correlating with phenotypic traits, particularly disease, and also in forensics and paternity testing.
                                                                                                                                                                                                                                                                    WPI; 2001-335945/35.
                                                                                                                                                                                                                                                                                        Au K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human; single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human polymorphic oligonucleotide U54701 fragment #9
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27-FEB-2002
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(AFFY-)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        variation
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Unidentified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       plant breeding;
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AFFYMETRIX INC.
                                            Similarity
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             TGCAGTGGCTCCAGCATCAC 3232
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eding; ds.
BP; 9 A; 0 C; 0 G; 27 T; 0 U; 0 Other;
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(first en
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                nucleotide polymorphic; SNP; forensic science; ting; phenotypic trait; genetic mapping; animal breeding;
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                                                                                                                                                                                                                                                                                       Patil N,
                                                                                                                                                                                                                                                                                                                                             99US-0164596P
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/standard_name= "single nucleotide polymorphism"
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                                            0.3%;
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                                                                                                  on 09-SEP-2004 : Correction
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                                            Score 13.6;
Pred. No. 1.
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Pred. No. 2.2e+03
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RESULT 2322
AAZ00553
ID AAZ0055
XX AAZ0055
XC AAZ0055
XC Human G
XX Glypica
KW glypica
KW glypica
KW glypica
KW treatme
KW tumour
XX Synthet
OS Synthet
OS Homo sa
XX W099377
XX PD 29-JUL-
YX
PD 29-JUL-
YX
Z9-JUL-
YX Z0-JAN-
RESULT 2323
AAA79231/c
ID AAA7923
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XZ
DT 20-NOV-
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Human g
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Human;
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                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                 Query Match
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                                                                                                                                                                                                                                                                                                                                               Sequence 25 BP; 5 A; 8 C; 5 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Glypican; GPC1; GPC3; GPC4; GPC5; GPC6; human; glypican-related protein; glypican-6; glypican-4; glypican-1; glypican-3; glypican-5; diagnosis; treatment; abnormal; cell growth; cell behaviour; seomatic overgrowth; tumour formation; RACE; rapid amplification of cDNA ends; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                            200554 represent primers used in ends) expertiments for GPC6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 1; Page 32; 79pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New polynucleotides encoding glypican-related proteins, used to diagnose,
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                                                                                                                                                                                                                                                                                                    Local Similarity
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                                                                                                                                                                                                                                                                                  16;
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Pred. No. 1.9e+03;
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                                                                                                                                                                                                                                                                                    0
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Human, genomic DNA; polymorphism; genome; allele-specific; primer; probe; hybridisation; polymorphic site; forensic; paternity testing; medicine;

Human genomic 20-NOV-2000 AAA79231; AAA79231

DNA polymorphic site sequence tag

SEQ

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NO:601.

(first entry

standard;

DNA;

31 BP

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                                                                                                                                                                                                                                                                                                RESULT 2324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CC base, or the complement of the segment. Also described are: (1) an allele CC -specific oligonucleotide that hybridises to a segment of the novelty, (2) an isolated nucleic acid comprising a sequence of the novelty where the polymorphic site within the sequence is occupied by a base other than the reference base indicated in the specification; and (3) analysing a concleic acid, comprising obtaining a nucleic acid from an individual, and cotermining a base occupying any one of the polymorphic sites of the convelty. The nucleic acid segments and method can be used to analyse an individuals nucleic acid segments and method can be used to analyse an individuals nucleic acid segments for the presence of polymorphisms. The presence of the phenotype with a particular polymorphism. The presence of polymorphic sites are useful for, e.g. forensics, paternity testing, correlation of polymorphisms with phenotypic traits and for genetic mapping of phenotypic traits. AAA78631 to AAA79632 represent sequence tags of human genomic DNA fragments containing polymorphic sites. The base occupying the polymorphic site is indicated using IUPAC-IUB
                                                                                                                                                                                                                                                                                                                                                                                                                            Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local
 sinusitis; asthma, pancreatitis; osteoarthritis; rheumatoid arthritis; acne, body weight disorder; obesity; cachexia; anorexia; psychiatric disorder; cancer; cystic fibrosis; pre-menstrual syndrome;
                                                 PUFA disorder; eczema; cardiovascular disorder; hypertriglyceridaemia; dyslipidaemia; atherosclerosis; coronary artery disease; cerebrovascular disease; peripheral vascular disease; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention describes a nucleic acid segment of 10-100 contiguous bases chosen from one of 632 fragments (AAA78631 to AAA79262), where the segment comprises a polymorphic site or an immediately adjacent
                                                                                                                                                 Fat regulated gene associated PCR primer #30.
                                                                                                                                                                                     29-AUG-2002
                                                                                                                                                                                                                                                             ABK94853
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   resting,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2000-500198/45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Patil N,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           26-JAN-2000; 2000EP-00250023
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 02-AUG-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        phenotypic trait; genetic analysis; genetic mapping;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (AFFY-) AFFYMETRIX
                                                                                                                                                                                                                                                                                                                                                                                          1323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        probes, and
                                                                                                          acid regulated gene; polyunsaturated fatty acid disorder;
                                                                                                                                                                                                                                                                                                                                                     30
                                                                                                                                                                                                                                                                                                                                                                              TTGTCATCCATTGAAGACAA 1342
                                                                                                                                                                                                                                                             standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     31 BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 genetic mapping,.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Page 22; 141pp; English
                                                                                                                                                                                                                                                                                                                                                     TIGICITCAATGGAYGACAA 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Shah N,
                                                                                                                                                                                                                                                                                                                                                                                                                          0.3%;
nilarity 80.0%;
Conservative
                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   polymorphic nucleic acid segments, allele specific primers nd methods of analysis, useful for e.g. forensics, paternit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Warrigton
                                                                                                                                                                                                                                                             DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     7 C;
                                                                                                                                                                                                                                                             21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   7 G; 7 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                          0,
                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 13.6; DB 1;
Pred. No. 2.2e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
cachexia;
fibrosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 31;
                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                          0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     paternity
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Human

Vbeta gene repeat sequence #206.

(first

Addison's disease; atrophic gastritis; degenerative nervous system disease; multiple sclerosis; Alzheimer's disease; hypersensitivity disease; type I hypersensitivity;

human, T-cell associated disease; Vbeta; autoimmune disease; degenerative nervous system disease; graft versus host disea hypersenstivity disease; infectious disease; neoplastic disaddison's disease; atrophic gastritis;

disease;

음 성

7

21

ADH70416

standard;

DNA; 22

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Matches
                                                                                          Query Match
Best Local 9
                                                                                                                                                                                                                                                                                                                                                          The invention describes an isolated polypeptide segment (1) whose genes are fat regulated. (I) or the polynucleotide encoding it (II) are useful for diagnosing the presence of or a predisposition for a disorder involving fatty acid regulated genes in a subject. A composition containing (I) or (II) is useful for treating a disorder involving fatty acid regulated genes, where the disorder is selected from a polyunasturated fatty acid (PUPA) disorder, eczema, cardiovascular disorders (such as hypertriglyceridaemia, dyslipidaemia, atherosclerosis, coronary artery disease, cerebrovascular disease or peripheral vascular disease), inflammation (such as sinusitis, asthma, pancreatitis, seconstritis, rheumatoid arthritis or acne), body weight disorders (such as obesity, cachexia or anorexia), psychiatric disorders, cancer, cystic fibrosis, pre-menstrual syndrome, diabetes, and diabetic complications. (I) or (II) is useful as research agent and materials for
                                                                                                                                                                                                                         discovery of treatments and diagnostics for a disease, particularly human disease. (II) is useful for constructing nucleotide probes and primers, for detecting genetic polymorphism, for detecting changes in the level of expression of (II), and as a diagnostic tool. This sequence represents a PCR primer used to isolate DNA encoding fat regulated genes
                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    involving
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Novel isolated
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  17-NOV-2000; 2000US-0248589P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      19-NOV-2001; 2001WO-CA001632
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              diabetes; diabetic complication; genetic polymorphism; PCR; primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              el isolated polypeptide segment encoded by fat diagnosing the presence of or a predisposition olving fatty acid regulated genes in a subject.
1668 CTCCTGCAGCAGATG
                                                                    14;
                                                                                             Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                XENON GENETICS
                                                                                                                                                                             21 BP; 2 A; 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Page
                                                                 Conservative
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De Antueno
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                82; 225pp; English.
                                                                                             0.38;
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Σ,
                                                                                                                                                                          C; 7 G; 4 T; 0 U;
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Jenkins
                                                                 0
                                                                                             Score
Pred.
                                                                       Mismatches
                                                                                             13.4;
No. 1
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Nwaka SO;
                                                                                                                                                                               0 Other;
                                                                                             .7e+03;
                                                                                                                           DΒ
                                                                                                                      Length
                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  regulated genes, useful
n for a disorder
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                                                                    0;
                                                                    Gaps
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AACBOLT 2326
AACBO151/c
ID AACBO15
XX AACBO15
AC AACBO15
XX O3-MAY-
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                                                                                                                                                                                                                                                                                      Query Match
Best Local S
Matches 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        associated diseases which comprises a panel of nucleic acid primers specifically priming and allowing amplification of each Vbeta gene, VbetaRNA or CDNA. The kit is useful for diagnosing organ transplant rejection and diagnosing and treating T-cell associated diseases including autoimmune diseases, degenerative nervous system diseases, graft versus host disease, hypersensitivity diseases, infectious diseases and neoplastic diseases. Autoimmune diseases include Addison's disease, atrophic gastritis. Degenerative nervous system diseases include multiple
                  Forward primer #22 used for amplification
                                                       03-MAY-2001
                                                                                                                                                                                                                                                                                                                                                           Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                           such as leukaemias, lymphomas and cancers such as cancer of the brain breast. The present sequence represents a Vbeta gene repeat sequence.
                                                                                                                                                                                                                                                                                                                                                                                                        sclerosis and Alzheimer's disease. Hypersensitivity diseases include Type I hypersensitivities such as contact with allergens that lead to allergies, Type II hypersensitivities such as those present in Goodpasture's syndrome and Type IV hypersensitivities such as those manifested in leprosy. Infectious diseases include viral infections caused by viruses such as Hose caused by viruses such as Hose caused by the yeast genus Candida, parasitic infections such as those caused by schistosomes, filaria and bacterial infections such as those caused by Mycobacterium. Neoplastic diseases include lymphoproliferative diseases such as leukaemias, lymphomas and cancers such as cancer of the brain,
                                                                                         AAC80151;
                                                                                                                          AAC80151 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure; SEQ ID NO 610; 164pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Kit for diagnozing and treating T-cell associated diseases e.g. autoimmune, degenerative nervous system and infectious disease, compuncteic acid primers specifically priming and allowing amplification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Hood LE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to a kit for diagnosing and treating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2004-059052/06.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    17-OCT-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            19-SEP-1994;
19-SEP-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  05-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           type IV hypersensitivity; leprosy; infectious disease; viral infection; HIV; fungal infection; Candida; parasitic infection; schistosome; filaria; bacterial infection; Mycobacterium; neoplastic disease; lymphoproliferative disease; leukaemia; lymphoma; cancer; brain cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (ROWE/) ROWEN L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (HOOD/) HOOD L E.
                                                                                                                                                                                                                                                     275
                                                                                                                                                                                                                                                                                    14;
                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                       Similarity
                                                                                                                                                                                                                                    TCTCTTTCTCTCTCT 289
                                                                                                                                                                                                                   TCTCTTTCTCTCTTT
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                                                                                                                                                                                                                                                                                                                                                           BP; 0 A; 7 C; 0 G; 15 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                      Conservative
                                                    (first entry)
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95US-00531241.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  99US-00263959
                                                                                                                            DNA;
                                                                                                                                                                                                                                                                                                     93.3%;
                                                                                                                            23
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                                                                                                                                                                                                                                                                                        0
                                                                                                                                                                                                                                                                                                       Score 13.4;
Pred. No. 1.
                                                                                                                                                                                                                                                                                        Mismatches
                                                                                                                                                                                                                                                                                                     DB 1;
                  of HLA-A exon
                                                                                                                                                                                                                                                                                                                        Length 22;
                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         T-cell
                                                                                                                                                                                                                                                                                    0
                                                                                                                                                                                                                                                                                    Gaps
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ABZ84084/c
ID ABZ84084 standard; DNA; 23
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Best Local Similarity
Matches 14; Conserv
                                                                                                                                                                        Homo sapiens.
Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention relates to a method for the locus-specific, separate amplification of exon 2, exon 3, and/or exon 4 of human leukocyte antigen (HLA)-A, HLA-B, or HLA-C alleles. The method is useful for subtyping or typing of HLA class 1 alleles. The present sequence is an amplification primer used in the method
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Locus-specific, separate amplification of exon 2, exon 3, and/or exon of human leukocyte antigen (HLA)-A, HLA-B, or HLA-C alleles using defi primer sets, useful for subtyping or typing of HLA Class I alleles.
          WPI; 2003-268322/26
                                         Neft
                                                                                    16-AUG-2001; 2001US-0313080P.
                                                                                                          16-AUG-2002; 2002WO-US026514
                                                                                                                                                                                                                                                     14-MAY-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 23 BP; 3 A; 12 C; 6 G; 0 T; 0 U; 2 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 4; Page 37; 128pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               09-APR-1999;
11-JUN-1999;
                                Alen
                                                                                                                                27-FEB-2003.
                                                                                                                                                     WO2003016500-A2
                                                                                                                                                                                                         Toxicologically
                                                                                                                                                                                                                              Toxicologically relevant human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2000-647426/62.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                05-APR-2000; 2000WO-EP002998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HLA-A; HLA-B; HLA-C; typing; primer; human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (INNO-) INNOGENETICS NV
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                                                                                                                                                                                                                                                                                                                                                                          4733
                                P,
                                                                                                                                                                                                                                                                                                                                                     21
                                                                PHASE-1 MOLECULAR TOXICOLOGY INC.
                                                                                                                                                                                                                                                                                                                                                     RGTCCCGCGGCTTCGGG 5
                                                                                                                                                                                                                                                                                                                                                                          AGTCCCGCGGGTTCCGG 4749
                                          Dunn RT,
                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Rombout
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               99EP-00870068.
99US-0138614P.
                                                                                                                                                                                                        relevant gene; toxicological response; PCR primer;
                                          Adkins K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    þ
                                                                                                                                                                                                                                                                                                                                                                                                           82.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                     0.3%;
                                                                                                                                                                                                                                                                                                ВP
                                                                                                                                                                                                                                                                                                                                                                                                           Score 13.4;
Pred. No. 1.
                                          Pickett GG,
                                                                                                                                                                                                                              PCR primer #1243.
                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
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                                          Kier LD,
                                                                                                                                                                                                                                                                                                                                                                                                2
                                                                                                                                                                                                                                                                                                                                                                                                                    Length
                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                           Schmeiser
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                                                                                                                                                                                                                                                                                                                                                                                                Gape
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention describes a method (MI) for determining a CC toxicological response to an agent, which comprises comparing the expression profile of one or more human toxic response genes to a CC reference gene expression profile indicative of toxicity, and so CC determining the presence of a toxic response to the agent. Also CC described: (1) an array comprising one or more polymucleotides sclected from the genes corresponding to the partial sequences given in ABZ82842 CC ; and (2) determining if a gene putatively identified to be a toxic CC response gene plays a role on toxic response pathways by determining the expression profile of the gene after exposure of cells or a human subject CC exposing cells to an agent or industrial agent, comprising: (a) CC exposing cells to an agent; (b) obtaining the test gene expression profile for a putatively identified toxic response gene after exposure to a known toxic pharmaceutical or industrial agent; and (c) comparing the test profile to the expression profile of a gene with a similar function or CC comparing the test profile to the expression profile of a gene with a similar function or CC comparing the test profile to other known toxic compounds. The methods are useful for correct out of correct or industrial gene after exposure useful for correct or industrial corrections are useful for correct outer to other known toxic compounds. The methods are useful for correct outer to correct outer and correction or correct outer to the expression profile of a gene with a similar function or correct exposure to other known toxic compounds. The methods are useful for correct outer to other known toxic compounds are useful for correct outer to the expression profile of toxic outer to a known toxic compounds. The methods are useful for toxic outer to other known toxic compounds. The methods are useful for toxic outer to other known toxic compounds. The methods are useful for toxic outer to other known toxic compounds. The methods are defined and chemical corrections and ch
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                          Loblolly pine; Simple Sequence Repeat; SSR; microsatellite DNA repeat; genetic marker; mapping; inheritance study; population genetics study; plant breeding programme; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Determining a toxicological response to an agent, useful for screening drugs, comprises comparing the expression profile of one or more human toxic response genes to a reference gene expression profile indicative
                   Echt CS
                                                                                (INTO)
(ECHT/)
(NELS/)
                                                                                                                                                                15-JAN-1999;
19-JAN-1999;
                                                                                                                                                                                                                           06-JAN-2000; 2000WO-US000325
                                                                                                                                                                                                                                                                                                                WO200042210-A2
                                                                                                                                                                                                                                                                                                                                                       Pinus taeda
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Loblolly pine
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99US-00232785.
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Best Local :
                                                                                                           Claim 14; Page 37; body, -----
The present invention provides a method for identifying a set of extendible primers which can be used in the identification, typing and classification of genes. This can then be used to predict protein telessification of genes. This can then be used to predict the the sequence and structure, in organ donation to match the organ with the sequence and the can be used the control of the method can be used the control of the method can be used the control of the control of the control of the method can be used the control of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Identifying extendible primers for use in identification, or classification of a nucleic acid of an organism, allele or g class 1/2 HLA comprises identifying all possible nucleotide specific length.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DNA sequence analysis; sequencing; protein sequence; protein structure; gene typing; organ donation; bacteria identification; 16s rRNA; HLA; human leukocyte antigen; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention relates to loblolly pine polynucleotides with one or more Simple Sequence Repeats (SSRs) (see AAA74205-A74322). The present sequence is one such SSR repeat. SSRs are also known as microsatellite DNA repeats. The SSRs are useful as genetic markers for genetic mapping, population genetics studies and inheritance studies in various plant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         apolynucleotide having simple sequence repeat useful as markers in plants for genetic characterization e.g. genetic mapping study, an inheritance study of a commercially important trait in a plant breeding program.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ulfendahl P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 24 BP; 8 A; 0
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RESULT 2330
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         The present invention relates to human testis expressed Patched like CC protein (HTPL, see ABV/8759 to ABV/8762 and ABB98519 to ABB98520). HTPL CC has two isoforms, with a few single base pair differences between the two. One of the single base pair changes introduces a premature stopy codon in HTPL-S (S for short) compared to HTPL-L (L for long). HTPL Shares an overall structure organisation with the Patched protein. The shared structural features strongly imply that HTPL plays a role similar to that of Patched, and is a potential tumour suppressor. HTPL is important in regulating male germ cell development, and the HTPL gene was mapped to human chromosome 10pl2.1. HTPL and its coding sequence are useful for diagnosing a disorder caused by mutation in HTPL, and in therapy and manufacture of a medicament for treatment or prevention of such disorder associated with decreased expression or activity of human HTPL. Such disorders include disorders of testis, or adrenal, adult and foetal liver, bone marrow, brain, kidney, lung, placenta, prostate, skeletal muscle or colon function. HTPL proteins and nucleic acids are clinically useful diagnostic markers and potenial therapeutic agents for male infertility and cancer. The present oligonucleotide was used in an example from the invention
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Best Local &
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30-JAN-2001; 2001WO-US000665.
30-JAN-2001; 2001WO-US000667.
30-JAN-2001; 2001WO-US000669.
30-JAN-2001; 2001WO-US000669.
23-MAY-2001; 2001US-00864761.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; gene therapy; tumour suppressor; HTPL; chromosome 10p12.1; human testis expressed Patched like protein; testis; adrenal; liver; male germ cell development; bone marrow; brain; kidney; lung; placenta; prostate; skeletal muscle; colon; male infertility; cancer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2002-676582/73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human HTPL
                                                                                                                                                                                                                                                                                                                                                                                                                           Novel isolated human testis expressed Patched like protein (HTPL), useful for identifying agonist and antagonist and specific binding partners, and
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                                                                                                                                                                        The invention discloses a microarray comprising a plurality of nucleic acid probes including one of 2,018,500 fully defined sequences, or its perfect match, perfect mismatch, antisense match or antisense mismatch.

CL Also disclosed is a method of gene expression analysis. The array is used in monitoring gene expression levels by hybridisation to a DNA library, in analysis of genetic variation or in hybridisation of tag-labelled compounds. The nucleic acid probes are specifically designed for analysis of at least one target sequence. The method of analysis comprises of at least one target sequence. The method of analysis comprises hybridising at least one or more nucleic acids to at least two or more nucleic acid probes are attached to a solid support. The analysis comprises monitoring gene expression levels, identifying billelic markers or polymorphisms, or family members of a gene and a cross-species comparison. Each of the nucleic acids further comprises a tag sequence. The array of nucleic acid probes is useful in in situ hybridisation, in Southern, Northern or dot-
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                                                 blot hybridisation to identify or detect the sequence or specific mutations of any gene, in mapping the 5' termini of mRNA molecules by primer extensions or in screening cDNA or genomic libraries or subclones for additional subclones containing segments of DNA that have been isolated and previously sequenced. The sequence presented is one of the nucleic acid probes incorporated in the microarray. Note: The sequence data for this patent can also be obtained in electronic format directly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New array of nucleic acid probes, useful for Southern, Northern or dot-blot hybridization sequence or specific mutations of any gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EST; ss; probe; expressed sequence tag; microarray; gene expression; genetic variation; biallelic marker; polymorphism; human;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 1; SEQ ID NO 28207;
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                              USPTO at segdata.uspto.goc/sequence.html
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present invention describes a human nuclear cap binding protein (NCBP) interacting protein 2 (NIP2) associated protein (I). NIP2 Ap be used for treating diseases such as cancer. The present sequence represents a PCR primer for NIP2 AP, which is used in an example from the protein of the
                                              Brassica turgor gene-26; btg-26; promoter; seed yield; biomass; plant transformation; ds.
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                                                                                                                                                  B. napus turgor gene-26
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Pred. No. 2e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 13.4; DB 1;
Pred. No. 2e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
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                                                                                                                                                     promoter fragment.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          can
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AAT27507/c
ID AAT2750 XX AAT2750
AC AAT2750
XX AAT2750
XX AAT2750
XX DE Human c
XX Antisen
KW Antisen
XX Antisen
XX Antisen
XX Synthet

04-JUL-1996 AAT27507;

(first

entry)

AAT27507 standard; DNA;

20 84

Human c-raf kinase 3' untranslated region antisense oligonucleotide

anti-proliferative; tumour; cancer; raf; oncogene; hioate; 2' sugar modification; psoriasis; restenosis;

88

Synthetic

phosphorothioate; Antisense; 밁 S

Matches Query Match Best Local (

Similarity

0.3%;

Score 13.4; Pred. No. 2 Mismatches 2834 16

3e+03 DB 1; 9

Length 38 Indels

0

Gaps

0

Conservative

0

2812 ATGAAGAAGGAAGTGAGGGGGAG 38 AAGAGGAAGTGAGTGAGAGAGAG

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environmentally or developmentally-regulated expression of a target gene (TG) in a plant. The method involves producing a plant from a transformed plant cell comprising TG in operative linkage with a genetic regulatory element, especially Brassica turgor gene-26 (btg-26) promoter element, which directs tissue-specific expression of TG within selected plant tissue. A method (M2) for increasing seed yield or blomass of a plant growing under one or more environmentally adverse conditions or low nitrogen, by transforming a plant with TG in operative linkage with a btg nitrogen involved in nitrogen assimilation or metabolism and growing the transformed plant is also provided. (M1) is useful for directing the supplied to the condition of the conditio
                                                                                                             of the plant, resistance to insects, nematodes, viruses, bacteria or fungi, appearance or antisense genetic sequences, within a fruit, seed, flower, tuber, shoot, vascular system, meristem, pollen or ovule of a plant. (M2) is useful for increasing biomass of a plant growing under one or more environmentally adverse conditions such as salinity, nutrient, drought, temperature, oxygen, heavy metal, pH stress or their combinations. The present sequence represents a fragment of the btg-26
                                                                                                                                                                                                                                                                                                                                                                                specific expression of a target gene encoding proteins involved in phytoremediation, pesticide, herbicide resistance, resistance to stress, structural proteins, pharmaceutical proteins or enzymes which produce pharmaceutical compounds, nutrient uptake or utilization, plant growth, proteins which alter nutrient content or proteins involved in appearance proteins which alter nutrient content or proteins involved in appearance
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Directing tissue-specific expression of a target gene in a plant, using a genetic construct comprising a target gene in operative association with Brassica turgor gene-26 promoter element.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO200155433-A2
Sequence 38 BP; 2 A; 18 C; 0 G; 18 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention provides a method (M1) for directing tissue-specific
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure; Page 26; 88pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2001-476221/51.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          02-AUG-2001.
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                                                                            promoter, used in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             29-JAN-2001; 2001WO-CA000066
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                                                                                    invention
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AAX36464/c
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Best Local Similarity
                       07-FEB-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                AAT27481-T27507 are human c-raf kinase antisense oligonucleotides used for the inhibition of raf expression. The oligonucleotides (ONS) are targeted to either coding region, start or stop signal or 5' or 3' untranslated region (UTR) mENA encoding human c-raf. The ONS may be phosphorothicate linked and may contain modifications at the 2' position of the sugar modety. ONs are pref. complementary to either 3' or 5' UTRs, phosphorothicate linked and contain 2'-O-alkyl sugar modifications. The ONs are used to inhibit expression of human raf in partic. in conditions associated with hyperproliferation e.g. cancer, restenosis, and psoriasis
                                                                                                                         RNaseH; RNA cleavage; DNA cleavage; hybridisation; protein kinase C gene; gene expression modulation; ras; raf; therapy; AIDS; atherosclerosis; infection; cell growth; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 20 BP; 0 A; 10 C; 3 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Oligo:nucleotide(s) targetted to nucleic acids encoding capable of inhibiting raf expression, used in treatment hyper:proliferative disorders.
                                                  21-AUG-1997.
                                                                          WO9730067-A1
                                                                                                                                                                             Chimeric 2'-O-methyl oligo
                                                                                                                                                                                                         06-JUL-1999
                                                                                                                                                                                                                                                          AAX36464 standard; DNA; 20 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      31-MAY-1995;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (ISIS-) ISIS PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              31-MAY-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 07-DEC-1995.
                                                                                                                                                                                                                                                                                                                                                   4034 GGAGGAGGGCCACCAGG 4051
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                                                                                                                                                                                                                                                                                                                           GGAGGAGAAGCCAGCAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Page 18; 65pp; English.
                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                             Conservative
                        97WO-US002043
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/*tag=
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/note= "opt. phosphorothicate linked"
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                                                                                                                                                                               for c-raf inhibition.
                                                                                                                                                                                                                                                                                                                                                                           0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                         Score 13.2; DB 1;
Pred. No. 1.7e+03;
                                                                                                                                                                                                                                                                                                                                                                                                 Length 20;
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RESULT 2336
AAT59728/c
ID AAT5972
XX AAT5972
XX DE Human r
XX raf; in
KW raf; in
KW anti-hy
XX Synthet
XX Synthet
XX Synthet
XX Mandifie
FT modifie
FT modifie
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PN W097047
XX
PF 13-FBB.
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PF 24-JUL.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CC oligonuclectides (A), which specifically hybridises to RNA or DNA, comprises a linear sequence of nucleotide units linked by phosphodiester or phosphorothicate linkages, comprising a first subsequence having 2'-O-CH2-CH2-O-CH3 sugar moieties and a second subsequence having 2'-O-CH2-CH2-O-CH3 sugar moieties and a second subsequence having 2'-O-CH2-CH2-O-CH3 sugar moieties and a second subsequence having 2'-O-CH3-CH2-CH3 sugar moieties and protein kinase C genes, useful in the therapy of AIDS, atherosclerosis, bacterial or other infections, or to control aberrant cell growth in humans, animals or plants. (A) can also be used diagnostically, particularly when labelled, to detect overexpression of mRNA or expression of abnormal RNA, including imaging of tissue sections, and as a research reagent. (A) has increased binding affinity for complementary strands (attributable to the 2'-O-CH2-CH3 sugar moiety, which overcomes the loss of affinity caused by altered intersugar links), and increased resistance to nuclease (from the modified links and the 2'-O-CH2-CH2-O-CH3 sugar moiety)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local (
                                    13-FEB-1997.
                                                                                                                                                   modified_base
                                                                                                                                                                                                                                                          Synthetic.
                                                                                                                                                                                                                                                                                                                                           Human raf inhibitor oligonucleotide ON21.
                                                                                                                                                                                                                                                                                                                                                                             06-OCT-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Oligo:nucleotide with RNaseH activity, which specifically hybridises to DNA or RNA - comprises 1st and 2nd sub:sequence(s) having 2'-O-CH2-CH2-O-CH3 and 2'-deoxy sugar moieties, useful for therapy or diagnosis.
                                                                  WO9704787-A1
                                                                                                                                                                                                                                                                                        anti-hyperproliferative; ss
                                                                                                                                                                                                                                                                                                        raf; inhibitor; antisense; liposome; cancer; abnormal expression;
                                                                                                                                                                                                                                                                                                                                                                                                              AAT59728
                                                                                                                                                                                                                                                                                                                                                                                                                                             AAT59728 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 20 BP; 0 A; 10 C; 3 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       This sequence is an example of an oligonucleotide of the invention, is an inhibitor of c-raf expression. The invention relates to
                                                                                                                                                                                                    modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 16; Page 41; 86pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (ISIS-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4034 GGAGGAGGGGCCACCAGG 4051
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                18
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                    /*tag= b
/note= "2' position of the sugar moiety is substituted by
methoxy"
                                                                                                                                                     /*tag= a
/note= "phosphorothioate
10. .20
                                                                                                                                                                                                                         Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                             DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 13.2;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
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                                                                                                                                                                      backbone linkages"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 1; Length 20;
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24-JUL-1996;

96WO-GB001775

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RESULT 2337
AAT62157/c
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Best Local Similarity
Matches 15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAT59716-28 are preferred oligonucleotides which are targeted to mRNA encoding human raf and are capable of inhibiting raf expression. Compositions containing the oligonucleotides entrapped in sterically stabilised liposomes are claimed. The compsns. can be used for inhibiting the expression of human raf. They can be used for the treatment of mammalian cancer, partic, thuman cancer e.g. lung, stomach, renal, breast, laryngeal, pancreatic, colorectal cancer and malignant melanoma. In particular the compsns. can inhibit abnormal raf expression and retain anti-hyperproliferative activity after prolonged circulation in the bloodstream. They facilitate the reduction of accumulation of ONs in non-target organs and a reduction of acute and chronic side effects during prolonged treatment. ON18, 19 and 21 are chimeric oligonucleotides with uniform phosphorochioate backbones, and substituted with methoxy at the composition of the sugar moiety as indicated above. ON21 is targeted to the surprocess.
                                                                                                                                                                                                                              Cancer; anionic polysaccharide; human; renal cancer; breast cancer; laryngeal colorectal cancer; malignant melanoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Inhibiting human raf expression, poligonucleotide targetted to mRNA sterically stabilised liposome(s)
19-SEP-1995;
                        12-SEP-1996;
                                                    27-MAR-1997.
                                                                               WO9710829-A1
                                                                                                                                                            misc_feature
                                                                                                                                                                                                      Synthetic.
                                                                                                                                                                                                                                                                                    Human c-raf
                                                                                                                                                                                                                                                                                                                 01-DEC-1997
                                                                                                                                                                                                                                                                                                                                                                     AAT62157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
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19-SEP-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (CIBA ) CIBA GEIGY AG.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             position of the 3'UTR of c-raf
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4034 GGAGGAGGGCCACCAGG 4051
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                                                                                                                                                                                                                                                                                                                                                                     standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                         GGAGGAGAAGCCAGCAGG 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Phillips JA,
                                                                                                                                                                                                                                                                                      and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
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95GB-00019130
95GB-00019109
                         96WO-GB002245
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                                                                                                                                                                                                                                                                                    dextran sulphate mRNA targetting oligonucleotide ON21.
                                                                                                     /note= "Phosphorothioate backbone; optionally being substituted at the 2'-position of the sugar moiety methoxy group at positions 10 to 20"
                                                                                                                                                           Location/Qualifiers
                                                                                                                                                /*tag=
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                                                                                                                                                                                                                                                                                                                                                                     DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 13.2; DB 1; Length 20; Pred. No. 1.7e+03; O; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  7 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        partic. for treating encoding human raf e
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Hamilton
                                                                                                                                                                                                                              lung cancer; stomach
cancer; pancreatic c
tumour; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g cancer -
entrapped
                                                                                                                                                                                                                                            cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            <u>,,</u>
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RESULT 2338
AAXI5070/c
ID AAXI507
XX AAXI507
XX 20-MAR-
DT 16-APR-
XX Nucleas
KW 2'-imid
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Best Local S
Matches 15
                                                                                                                                                                   11-JAN-1990;
13-AUG-1990;
12-AUG-1991;
05-MAR-1992;
01-JUL-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Key
modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                oligonucleotide, targeted to human raf encoding mRNA, and an anionic polysaccharide. The present sequence represents a specifically claimed oligonucleotide for use in the composition. The composition can be used to treat mammalian cancer, especially human lung, stomach, renal, breast laryngeal, pancreatic or colorectal cancer, or malignant melanoma. The anionic polysaccharide increases tumour uptake of the oligonucleotide, particularly an oligonucleotide targeted to human raf encoding mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A pharmaceutical composition has been developed comprising oligonucleotide, targeted to human raf encoding mRNA, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Composition for cancer treatment - oligo:nucleotide targetted to mRNA
                                                                                                                                                                                                                                                                                                                   06-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Nuclease resistant; ribofuranosyl moiety; 2'-aminoalkoxy; tumour; 2'-imidazolylalkoxy; modulation; activity; AIDS; atherosclerosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   c-raf antisense chimeric oligonucleotide of the invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Nicklin
                                                                         Cook PD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   phosphorothicate;
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16-APR-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAX15070;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAX15070
                                                                                                                                                                                                                                                                                                                                                                   16-FEB-1999.
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15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PL,
                                                                                                                        SISI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       standard; DNA; 20 BP
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                                                                         Kawasaki AM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Page 15; 21pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (revised)
(first en
                                                                                                                        PHARM INC.
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                                                                                                                                                                   90US-00463358.
90US-00566977.
91WO-US005720.
92US-00835932.
92US-00854634.
                                                                                                                                                                                                                                                                                                                   95US-00471973
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             <u>۾</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                "phosphorothioated'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 13.2; DB 1;
Pred. No. 1.7e+03;
0; Mismatches 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  comprising anionic polysaccharide, encoding human c-raf and dextran
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0;
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WPI; 1999-166721/14

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RESULT 2339
AAZ11537/c
ID AAZ1153
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local S
Matches 15
Claim 1; Col 11; 29pp; English
                                               Oligonucleotides targeted to human raf mRNA useful for treating diagnosing abnormal proliferative states and inhibiting raf expr
                                                                                                                                                                                                                                                                                              31-MAY-1994;
31-MAY-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; raf; diagnosis; abnormal cancer; psoriasis; blood vessel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human c-raf
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAZ11537,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             comprising a 2'-i
                                                                                                                                                                                                                                                                                                                                                                                                                                14-SEP-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 31; Col 50;
                                                                                                                                                                                                                                         (ISIS-) ISIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2'-O-modified oligo-nucleotide(s) - comprising nucleotide(s)
prising a 2'-aminoalkoxy or 2'-imidazolylalkoxy substituent, used for
ridisation to RNA or DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4034 GGAGGAGGGCCACCAGG
                                                                                                                                  1999-527018/44.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    sapiens.
                                                                                                                                                                                    RT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    18
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                                                                                                                                                                                    Monia BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   kinase antisense oligo ISIS # 7853
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      oligonucleotide exemplifies the oligonucleotides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0.3%;
llarity 83.3%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BP; 0
                                                                                                                                                                                                                                         PHARM INC
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95WO-US007111.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               10 C; 3 G; 7 T; 0 U; 0 Other;
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Pred. No. 1.7e
O; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     proliferative state; hyperproliferation;
restenosis; c-raf kinase; antisense; ss.
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RESULT 2340
AAX05468/c
ID AAX0546
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Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                             11-JAN-1990;
13-AUG-1990;
12-AUG-1991;
05-MAR-1992;
01-JUL-1992;
The invention relates to a nuclease resistant compound that hybridises with RNA or DNA. The compound comprises covalently-bound nucleosides that individually include a ribose or deoxyribose sugar portion and a base portion, where the nucleosides are joined together by internucleoside linkages such that the base portion of the nucleosides form a mixed base sequence that is complementary to a RNA base sequence or to a DNA base sequence; and where at least 1 of the nucleosides includes a modified deoxyfuranosyl moiety bearing a 2'-substituent selected from cyano,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention provides antisense oligonucleotides targeted to mRNA encoding human raf and capable of inhibiting raf expression. The antisense oligonucleotides are useful for treating and diagnosing abnormal proliferative states and hyperproliferation (e.g. cancer, psoriasis, or blood vessel restenosis), and inhibiting raf expression. Sequences AAZ11511-537 and AAZ11565-573 represent antisense oligonucleotides for human c-raf kinase
                                                                                                                                                                             Nuclease resistant oligonucleotide analogues - having nucleosides including modified deoxyfuranosyl moiety bearing 2'-substituent to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                 Example 31; Col 51; 49pp;
                                                                                                                                                                                                                         WPI; 1999-120005/10.
                                                                                                                                                                                                                                                                                                                                                                                                     06-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             US5859221-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Chimeric antisense oligo for c-raf gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20-APR-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAX05468 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                12-JAN-1999.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Nuclease resistant;
                                                                                                                                                                                                                                                                                   (ISIS-)
                                                                                                                                                              increase binding affinity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4034 GGAGGAGGGCCACCAGG 4051
                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         atherosclerosis;
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                                                                                                                                                                                                                                                                                   ISIS PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GGAGGAGAAGCCAGCAGG
                                                                                                                                                                                                                                                      Kawasaki AM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP; 0 A; 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                           90US-00463358.
90US-00566977.
91WO-US005720.
92US-00835932.
92US-00854634.
                                                                                                                                                                                                                                                                                                                                                                                                    95US-00468037
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /note= "contains phosphorothioate linkages; optional
-methyl modification on some base pairs"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          modified; deoxyfuranosyl moiety; therapy; infection;
is; tumour; c-raf; antisense; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C; 3
                                                                                                                                  English.
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Pred. No. 1.7e+03;
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RESULT 2341
AAZ04755/c
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               28-NOV-1997;
17-DEC-1997;
04-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       fluoromethyl, thioalkoxyl, alkylsulphinyl, alkylsulphonyl, allyloxy and alkeneoxy groups. The nuclease resistant oilgonucleotides (ONs) can bind to and modulate the activity of DNA or RNA and can be used for treating organisms having a disease characterised by the undesired production of a protein. They can be used in therapeutic or prophylactic treatment in organisms such as bacteria, yeast, protozoa, algae, plant and higher animal forms including warm-blooded animals. The ONs can also be used for treating infections, AIDS, atherosclerosis or tumours. The products can be used for detection and diagnosis. The ONs provide enhanced binding to targets. Increased binding of 2' sugar modified sequence-specific ONs provides superior potency and specificity compared to phosphorus-modified ons. The present sequence represents a chimeric antisense oligo for c-raf
PCR primers AAZ01426-Z06209 were used to amplify open reading frames (ORFs) of the genome of Chlamydia trachomatis (see AAZ01425). These ORFs encode polypeptides (see AAZ36734-X37949) which can be used as vaccines against Chlamydia trachomatis. Antisense and ribozyme sequences can also be used to control growth of the microorganism. Chlamydia trachomatis is responsible for a large number of diseases, e.g. eye diseases such as conventional trachoma, nonendemic trachoma, paratrachoma, and inclusion conjunctivitis; genital diseases such as mongonococcal uretritis, epidymitis, cervicitis, salpingitis, perihepatitis, bartholinitis, penempopathy in breast feeding infants; and venereal lymphogranulomatosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Vaccine; eye disease; conventional trachoma; nonendemic trachoma; paratrachoma; inclusion conjunctivitis; genital disease; perihepatitis; nongonococcal uretritis; epidymitis; cervicitis; salpingitis; PCR prime: bartholinitis; pneumopathy; venereal lymphogranulomatosis; ss.
                                                                                                                                                                                                                                                                                                     Disclosure;
                                                                                                                                                                                                                                                                                                                                                           Genome
                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 1999-371125/31
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                                                                                                                                                                                                                                                                                                                                                           sequence of Chlamydia trachomatis
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                                                                                                                                                                                                                                                                                                     Page 1714; 1755pp; English
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97FR-00016034.
98US-0107077P.
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Pred. No. 1.7e+03
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            of Chlamydia trachomatis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0 U;
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AAZ10296/c
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                             Query Match
Best Local S
Matches 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                   The present sequence represents a phosphorothicate antisense oligonuclectide used to inhibit c-raf gene expression. The oligonuclectide used to inhibit c-raf gene expression. The oligonuclectide used to indicate oligonuclectide, whereby one part has at least two consecutive 2'-F(2'-H) nuclectides and the second part has at least five consecutive nuclectides with 2'-H sugar moieties. The modified oligonuclectide has increased nuclease resistance, and increased binding affinity for substrates. The oligonuclectide elicits RNase H strand cleavage of specific RNAs. Oligonuclectides of the invention are useful for the diagnosis, detection and treatment of conditions susceptible to oligonuclectide therapeutics (e.g. AIDS and atherosclerosis). (Updated on 20-MAR-2003 to correct PR field.)
                                                                                                                                                                                                                                                                                    Oligonucleotides eliciting RNAase H activity useful for diagnosis treatment of diseases e.g AIDS or atherosclerosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Antisense oligonucleotide; RNAse H strand cleavage; pl AIDS; atherosclerosis; ss.
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                                                                               Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                  24-DEC-1991;
23-DEC-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         06-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                21-SEP-1999.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Oligonucleotide used to inhibit c-raf gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20-MAR-2003
08-NOV-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The polypeptides of the invention may be of use in treating these
                                                                                                                                                                                                                                                             Example 14; Col 24;
                                                                                                                                                                                                                                                                                                                            WPI; 1999-539598/45
                                                                                                                                                                                                                                                                                                                                                    Monia
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                                                                                                                                                                                                                                                                                                                                                                             (ISIS-) ISIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1662 TGCCAGCTCCTGCAGCAG 1679
     4034 GGAGGAGGGCCACCAGG
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                                           Similarity
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                              Conservative
                                                                               BP; 0
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(first entry)
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92WO-US011339.
94US-00244993.
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                                                                              A; 10 C; 3 G; 7 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                            34pp; English
                                          0.3%;
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83.3%; Pred.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    c-raf; nuclease resistance;
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      4051
                             0;
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                              Score 13.2; D
Pred. No. 1.7e
0; Mismatches
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                                           .7e+03
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       oligonucleotide therapeutic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             expression
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                                                      Length 20;
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                              Gaps
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RESULT 2343
AAZ48166/c
                                                                                                                CC comprising 2-fluoro modified ribofuranosyl nucleotides. (I) comprise CC covalently bound nucleotides, where the nucleotides are joined together by: (a) internucleotide linkages such that the base portion of the CC nucleotides forms a mixed base sequence; and (b) at least one of the CC nucleotides includes a modified ribofuranosyl group bearing a 2-fluoro CC substituent; provided that at least two of the nucleotides are 2-fluoro CC modified ribofuranosyl nucleotides when the internucleotide linkages are C phosphodiester nucleotides. (I) bind to their target mRNA and inhibit its CC expression. (I) are resistant to nuclease degradation and hybridise with CC appropriate strength and fidelity to its target RNA/DNA. (I) are also CC useful as research agents, diagnostic agents and as oligonucleotide CC therapeutics. (I) may be used to treat atherosclerosis following CC angioplasty to prevent reocclusion of the treated arteries. (I) may also be used to modulate the expression of RAF gene, a cellular gene whose CC useful at the expression of RAF gene, a cellular gene whose CC activate form has been implicated in abnormal cell proliferation and CC kinase C. (I) exhibit hybridisation proporties of higher quality than CC kinase C. (I) exhibit hybridisation proporties of higher quality than CC sequence represent an oligonucleotide duplexes containing CC methylphosphonates, phosphoramidates and phosphate triesters. The present CC resent invention
Query Match
Best Local Similarity
Matches 15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11-JAN-1990;
13-AUG-1990;
12-AUG-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    05-MAR-1992;
01-JUL-1992;
06-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Nuclease resistant oligonucleotides useful as research agents, diagnostic agents, and in the treatment of atherosclerosis and AIDS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2000-072074/06.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Polyribonucleotide solid phase synthesis; diagnosis; hybridisation; protein production modulation; 2'-deoxyfuranosyl moiety; anti-HIV; antiatteriosclerotic; nuclease resistant; atherosclerosis; AIDS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAZ48166 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention describes nuclease resistant oligonucleotides (I)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 31; Col 51; 49pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Kawasaki AM,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    abnormal cell proliferation; tumour formation; ss.
                                                                       20
                                                                      BP; 0
   Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cook PD;
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90US-00566977.
91WO-US005720.
92US-00835932.
92US-00854634.
95US-00468037.
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                83.3%;
                                                                      10 C; 3 G;
                                    0.3%;
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 0
                Score 13.2;
Pred. No. 1.
   Mismatches
                                                                      7 T; 0 U; 0 Other;
                  .7e+03
                                    DB 1;
                                 Length 20;
   Indels
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 Gaps
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RESULT 2344
AAA73515/c
ID AAA73511
XX AAA7351
XX AAA7351
XX Bignal
XX Human,
XX Human,
XX Per modific
FT resten
XX US60900
XX Homo sa
XX Claim
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Query Match
Best Local S
Matches 15
                                                                                                                                                                      c-raf is a serine-threonine-specific protein kinase and is thought to play a fundamental role in signal transduction, and cell proliferation control. The present sequence is an antisense oligonuclectide. This sequence is targeted to human c-raf gene, resulting in c-raf expression inhibition. The present sequence may be useful for treating and rafassociated cell hyperproliferation conditions such as cancer, hyperplasias, pulmonary fibrosis, anglogenesis, psoriasis, atherosclerosis and smooth muscle cell proliferation in blood vessels e.g. stenosis or restenosis following angioplasty. Also, the present sequence may be useful for treating inflammatory disorders such as tissue graft rejection, endotoxin shock and glomerular nephritis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  31-MAY-1994;
31-MAY-1995;
26-NOV-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Antisense oligonucleotides targeted to nucleic acid molecule encoding human raf useful for diagnosis, treatment of raf-associated cell proliferative conditions such as cancer, psoriasis or blood vessel
                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 31; Col 10; 31pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2000-531424/48.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           signal transduction; hyperplasia; pulmonary fibrosis; angiogenesis; psoriasis; atherosclerosis; smooth muscle cell proliferation; stenosis; restenosis; inflammatory disorder; tissue graft rejection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; c-raf;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                c-raf kinase antisense oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Boggs RT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     28-AUG-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US6090626-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      endotoxin shock; glomerular nephritis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             28-NOV-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (ISIS-) ISIS PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               18-JUL-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           nodified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4034 GGAGGAGGGCCACCAGG 4051
||||||| ||| ||||
18 GGAGGAGAAGCCAGCAGG 1
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      15;
                                    Similarity
                                                                                                                         20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Monia BP;
      Conservative
                                                                                                                      BP; 0 A; 10 C; 3 G; 7 T; 0 U;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          protein kinase; antisense oligonucleotide; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     96US-00756806.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             94US-00250856.
95WO-US007111.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     98US-00143214.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /mod_base= OTHER /note= "Nall or some nucleotides are optionally methoxy ethoxy modification. Also, optionally phosphodiester or phosphothioate backbone"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
1. .20
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                        0.3%;
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   <u>,</u>
                                 Score 13.2;
Pred. No. 1.
      Mismatches
                                 2; DB 1;
1.7e+03;
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                                                                                                                         0 Other;
                                                            Length 20;
         Indels
      0
      Gaps
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4034 GGAGGAGGGCCACCAGG 4051

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GGAGGAGAAGCCAGCAGG

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                                                                                  RESULT 2345
AAD44740/c
                                     Matches
                                               Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                 31-MAY-1994;
31-MAY-1995;
26-NOV-1996;
07-JUL-1997;
06-JUL-1998;
28-AUG-1998;
                                                                                                                The present invention relates to novel antisense oligonucleotides which are targetted to nucleic acids encoding human raf proteins and capable of inhibiting raf expression. The invention also relates to methods of inhibiting hyperproliferation of cells which involves contacting the hyperproliferating cells with a therapeutically effective amount of an oligonucleotide of the invention. The method is useful for treating cancer, angiogenesis or neovascularisation, especially ocular angiogenesis or neovascularisation. The present DNA sequence is an angiogenesis or neovascularisation.
                                                                                  Sequence
                                                                                                                                                                                                                                                     Treating cancer, angiogenes antisense oligonucleotides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 therapy; cancer; cytostatic; anti-angiogenic; vascular; antisense; phosphorothioate backbone; c-raf kinase; ss.
                                                                                                      antisense oligonucleotide targetted to
                                                                                                                                                                                                                              Disclosure;
                                                                                                                                                                                                                                                                   Treating
                                                                                                                                                                                                                                                                                           WPI; 2002-597918/64.
                                                                                                                                                                                                                                                                                                                                                                                                                                                     18-FEB-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             25-JUN-2002.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human; raf; hyperproliferation; neovascularisation; ocular angiogenesis;
therapy; cancer; cytostatic; anti-angiogenic; vascular; ophthalmological;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human c-raf
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           13-DEC-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAD44740
                                                                                                                                                                                                                                                                                                                                          (ISIS-) ISIS
4034 GGAGGAGGGCCACCAGG 4051
                                    l Similarity
                                                                                  20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         standard;
                                                                                  B₽;
                                                                                                                                                                                                                             Col 14; 41pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 kinase antisense oligonucleotide ISIS #7853
                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                     2000US-00506073
                                                                                                                                                                                                                                                                                                                                          PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                94US-00250856.
95WO-US007111.
96US-00756806.
97US-00888982.
98WO-US013961.
98US-00143214.
                                                                                  0 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /note= "
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /*tag=
/mod_ba
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Location/Qualifiers
                                                                                                                                                                                                                                                     angiogenesis or neovascularization by administering ucleotides targeted to human raf sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DNA;
                                              0.3%;
                                                                                  10 C; 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      base=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "2'-0-methyl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "Phosphorothioate
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OTHER
                                   0;
                                                                                  G; 7
                                               Score 13.2;
Pred. No. 1.
                                     Mismatches
                                                                                  Η,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          nucleotides"
                                                                                  0 U;
                                             1.7e+03;
                                                                                                          human c-raf kinase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         backbone"
                                                          DB 1; Length 20;
                                                                                  0 Other;
                                    Indels
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                                   Gaps

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RESULT 2346
 ACA61359/c
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05-MAR-1992;
01-JUL-1992;
                        organism with a disease associated with the undesired production of a protetin, e.g. bacterial, viral or protozoan infections, AIDS, abnormal cell proliferation and tumour formation, or atherosclerosis. The press sequence represents the human c-raf mRNA antisense oligonucleotide #7
                                                                         with RNA or DNA, comprising covalently-bound nucleosides that individually include a ribose of deoxyribose sugar portion and a base portion. The nuclease resistant compounds are useful as therapeutics, diagnostic agents, or research reagents. The compounds are also useful for modulating the activity of an RNA or DNA molecule, or for treating for modulating the activity of an RNA or DNA molecule, or for treating
                                                                                                                                                                                                                                                                                              Ç
Cook
                                                                                                                                                                                                New nuclease resistant compounds, useful as therapeutics, diagnostic agents, or research reagents, or for treating an organism with a disease associated with the undesired production of a protein, e.g. bacterial infections or AIDS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens.
Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; c-raf; antisense; ss; nuclease inhibitor; gene therapy; AIDS; bacterial infection; viral infection; protozoan infection; abnormal cell proliferation; tumour formation; atherosclerosis.
Sequence
                                                                                                                                             The invention relates to a nuclease resistant compound that hybridises
                                                                                                                                                                       Example 31; Page 29; 50pp; English.
                                                                                                                                                                                                                                                                                                                                                                            23-DEC-1992;
21-JUN-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     11-JAN-1990;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         02-JAN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human c-raf mRNA antisense oligonucleotide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            11-JAN-1991;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                12-AUG-1991;
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                                                                                                                                                                                                                                                                                                                                                                                          -1992;
                                                                                                                                                                                                                                                                                                                         SISI
20
                                                                                                                                                                                                                                                                                             Kawasaki AM;
 BP; 0
                                                                                                                                                                                                                                                                                                                         PHARM INC.
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92US-00835932.
92US-00854634.
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92WO-US011339.
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90US-00566977
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20 are
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A; 10 C; 3 G;
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are 2'-O-methyl
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7 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            phosphorothioate hyl nucleotides"
 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    #7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          backbone.
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                                                                               an
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Query Match Best Local Similarity

0.3%;

Score Pred.

13.2; DB 1; No. 1.7e+03;

Length

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RESULT 2347
ADD44696/c
ID ADD4469
  The invention relates to a modified oligonuclectide comprising several covalently bound nucleosides including a ribose or deoxyribose sugar covalently bound nucleosides including a ribose or deoxyribose sugar covalently bound a base portion. The nucleosides are joined together by circumstance of the nucleoside includes a conditied ribofurance. At least one of the nucleosides includes a conditied ribofurance, and research agents a 2'-fluoro substituent. The carrier of the nucleosides includes a conditied ribofurance, and research agents e.g. for the treatment of various viruses (e.g. AIDS), for modulating the production of proteins by an organism, concertance of the protein of proteins by an organism, concertance of a protein (e.g. atheroselerosis, cancer), detecting the presence or consence of abnormal RNA molecules, or abnormal or inappropriate consence of abnormal RNA molecules, or abnormal or inappropriate consence of abnormal RNA molecules in organisms or cells, and for the selective binding of RNA for use as research reagents and diagnostic containing of RNA for use as research reagents and diagnostic consents. The compounds have improved stability to enzymatic degradation constitute to bind to a specific DNA or RNA with fidelity compared to wild-consent or the present sequence is an antisense oligonucleotide of the invention targetine bursan capacitic an antisense oligonucleotide of the invention targetine bursan capacitic an antisense oligonucleotide of the invention targetine bursan capacitic an antisense oligonucleotide of the invention targetine bursan capacitic and antisense oligonucleotide of the invention targetine bursan capacitic and antisense oligonucleotide of the invention targetine bursan capacitic and antisense oligonucleotide of the invention targetine bursan capacitic and antisense oligonucleotide of the invention targetine bursan capacitic bursantic and phosphate.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11-JAN-1990;
13-AUG-1990;
05-MAR-1992;
06-JUN-1995;
02-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Cook
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; ss; antisense; c-Raf; virucide; anti-HIV; antiarteriosclerotic; cytostatic; 2'-fluoro substituent; AIDS; atherosclerosis; cancer.
Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Modified oligonucleotides useful as therapeutics, diagnostics and research agents comprises several covalently bound nucleosides jointernucleoside linkages.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human c-Raf antisense oligonucleotide
                                   triesters. The present sec
invention targeting human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        02-OCT-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US2003187240-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADD44696;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADD44696 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 31; SEQ ID NO 13; 48pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (ISIS-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                28-JAN-2003; 2003US-00352586.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SISI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GGAGGAGAAGCCAGCAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Kawasaki AM;
BP; 0 A; 10 C; 3 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PHARM INC.
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90US-00566977.
92US-00835932.
95US-00468037.
99US-00389283.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20
                                          c-Raf.
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Query Match Best Local S Matches 15

1 Similarity
15; Conserv

Conservative

<u>.</u>

Score 13.2; DB 1; Pred. No. 1.7e+03; 0; Mismatches 3

DB 1;

Length Indels

0

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0

0.3%;

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ADF09731/c
ID ADF0973
XX ADF0973
XX ADF0973
XX T12-FEB-
XX TUMOUT
KW TUMOUT
KW THATCOS
XX TUMOUT
KW THATCOS
XX TUMOUT
KW THATCOS
XX TOTO
OS HOMO 80
XX US20031
XX US20031
XX TACOM
PR 11-JUN-
PR 26-JUN-
PR 26-JUN-
PR 31-MAY-
PR 31-MAY-
PR 26-NOV-
PR 18-FEB-
PR 18-FEB-
PR 18-FEB-
PR 18-FEB-
PR 18-FEB-
PR 28-AUG-
PR 28-AUG-
PR 18-FEB-
PR 18-FEB-
PR 18-FEB-
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PR 18-FEB-
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                                                                                                       Query Match
Best Local Similarity
Matches 15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          31-MAY-1994;
31-MAY-1995;
26-NOV-1996;
07-JUL-1998;
06-JUL-1998;
28-AUG-1998;
18-FEB-2000;
                                                                                                                                                                                                                                                                                       The invention describes a method of preventing or treating tumour metastessis in an animal comprising administering to the animal an oligonucleotide 8-50 nucleotides in length, which is targeted to mRNA encoding human raf and capable of inhibiting raf expression. Also disclosed are raf oligonucleotides, nucleic acids, proteins and compositions used in the methods of the invention. The oligonucleotides have cytostatic and antiarteriosclerotic properties, are useful as Rafinhibitors and in antisense-therapy. The methods and compositions of the present invention are useful for preventing and/or treating conditions associated with raf expression, such as hyperproliferative disorders, atherosclerosis and tumours. This sequence represents a human c-raf
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Preventing and/or treating conditions associated with raf expression, such as hyperproliferative disorders, atherosclerosis and tumors, using antisense oligonucleotide modulation of human raf gene expression.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             tumour metastasis; human; raf; raf expression inhibitor; cytostatic; antiarteriosclerotic; antisense-therapy; hyperproliferative disorder; atherosclerosis; tumour; c-raf kinase; antisense oligonucleotide; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human c-raf kinase
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                                                                                                                                                                                                              Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; SEQ ID NO 27; 41pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2003-863446/80.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              14-JUN-2002; 2002US-00173225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (MONI/) MONIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4034 GGAGGAGGGGCCACCAGG 4051
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  18
                                                                                                                                                                                                                                                                      antisense
                                                  GGAGGAGGGCCACCAGG 4051
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GGAGGAGAAGCCAGCAGG 1
                                                                                                          Conservative
                                                                                                                                                                                                              BP; 0
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2000US-00506073.
2002US-00057550.
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95WO-US007111.
96US-00756806.
97US-00888982.
98WO-US013961.
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                                                                                                                                                                                                                                                                   oligonucleotide.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               entry)
                                                                                                                                0.3%;
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                                                                                                       ٥,
                                                                                                                                                                                                              G; 7
                                                                                                                                Score 13.2;
Pred. No. 1
                                                                                                          Mismatches
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                                                                                                                                   1.7e+03
                                                                                                                                                               BB
                                                                                                                                                                                                                 0 Other
                                                                                                                                                         1; Length
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                                                                                                          Indels
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ADI12086/c
ID ADI12(
                                                       RESULT 2349
Query Match
Best Local Similarity
Matches 15; Conserv
                                                                          oligonuclectides comprising at least one modified 2'-deoxyfuranosyl group. The modified oligonuclectides are disclosed as being useful for modulating the production of a protein by an organism, and especially for treating a disease in an organism which is characterised by the undesired production of a protein. The oligonuclectides may be used to treat diseases caused by viruses or other agents. The oligonuclectides may also be used for disgnostic methods for detecting the presence or absence of abnormal RNA molecules, or for detecting the inappropriate expression of normal RNA molecules in an organism or cell. Oligonuclectides of the invention that selectively bind RNA molecules as research as research reagents. The new oligonuclectides are nuclease resistant and hybridise to RNA or DNA targets with high strength and specificity. The present sequence represents a human c-raf antisense oligonuclectide.
                                                                                                                                                                                                                                                                                                        modified 2'-deoxyfuranosyl group.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ss; nuclease resistant; mixed sequence; 2'-deoxyfuranosyl; c-raf;
antisense; human.
                                                      Sequence 20 BP; 0
                                                                                                                                                                                                                                                        The invention
                                                                                                                                                                                                                                                                               Example 31; SEQ ID NO 13; 48pp; English.
                                                                                                                                                                                                                                                                                                                                    Nuclease resistant mixed sequence oligonucleotides useful as
                                                                                                                                                                                                                                                                                                                                                                WPI; 2003-566474/53
                                                                                                                                                                                                                                                                                                                                                                                          Cook PD
                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-JUL-1992;
06-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      13-AUG-1990;
05-MAR-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                11-JAN-1990;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           02-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11-MAR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US6531584-B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human c-raf antisense oligonucleotide ISIS #7853.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   15-APR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADI12086;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                   SISI
                                                                                                                                                                                                                                                                                                                                                                                          Kawasaki AM;
  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                     PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                          90US-00463358.
90US-00566977.
92US-00835932.
92US-00854634.
95US-00468037.
                                                                                                                                                                                                                                                        relates to a nuclease resistant mixed sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                               98US-00035357
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            *tag= .
/mod_base= OTHER
/mod_base= OTHER= Phosphorothioate"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        note=
                                                       P,
             0.3%;
                                                      10 C; 3 G; 7 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        "OTHER= 2'-O-methyl"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ٥
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20
                                                                                                                                                                                                                                                                                                                        and research agents comprise at least one
 0,
 Score 13.2; D
Pred. No. 1.7e
0; Mismatches
               1.7e+03;
                                                       0 Other;
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                           Ξ.
                          Length 20;
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RESULT 2350
ACD42099/C
ID ACD4209
XX ACD4209
XX ACD4209
XX ACD4209
XX ACD4209
XX ACD4209
XX Bignal
XW MONI
PR 18-FEB-
YR 18-FEB-
YR AUG-
PR 18-FEB-
YR WP1; 20
XW The inv
CC The 
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14.
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                                                                               The invention relates to an oligonucleotide 8-50 nucleotides in length CC which is targeted to mRNA encoding human c-raf, a-raf or b-raf (raf is a protein kinase playing a regulatory role in signal transduction, comprising a regulatory role in signal transduction, composition comprising the oligonucleotide and a pharmaceutically cacceptable carrier. The antisense oligonucleotide is useful for composition comprising the oligonucleotide and a pharmaceutically contacting the expression of human raf in human cells or tissues, by contacting the expression of human raf in human cells or tissues, by contacting the expression of the seventing a disease or condition associated cuit the expression of raf by administering it in combination with a chemotherapeutic agent to a human or cells of the human, where the expression of raf is abnormal expression, and the condition is a concevascularisation (preferably ocular angiogenesis or neovascularisation). The oligo. is also useful for inhibiting cample for detecting and determining the role of raf expression in conditions and physiological processes and conditions and for various cell functions associated with raf expression and for research purposes. The present sequence is an antisense oligonucleotide targeting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     31-MAY-1994;
31-MAY-1995;
26-NOV-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          06-JUL-1998;
28-AUG-1998;
18-FEB-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; ss; antisense; c-raf; a-raf; b-raf; protein kinase; cancer; signal transduction; cell proliferation; lung carcinoma; cytostatic; antisense gene therapy; chemotherapeutic agent; angiogenesis; hyperproliferative condition; neovascularisation; ocular angiogenesis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Novel antisense oligonucleotide which is targeted to mRNA encoding human raf and which is capable of inhibiting raf expression, useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      05-SEP-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   treating
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     13-FEB-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACD42099;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (MONI/) MONIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               or preventing hyperproliferative conditions such
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               98WO-US013961.
98US-00143214.
2000US-00506073.
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95WO-US007111.
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7 T; 0 U; 0 Other;

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14929
to the human or murine acyl coenzyme A cholesterol acyltransferase-1 gene, which inhibit its expression. The antisense oligonucleotides were designed to target different regions of the human or murine acyl coenzyme A cholesterol acyltransferase-1 RNA, and were analysed for their effect on acyl coenzyme A cholesterol acyltransferase-1 mRNA levels by quantitative real-time PCR. Acyl coenzyme A cholesterol acyltransferase (ACAT) enzymes catalyse the synthesis of cholesterol esters from free cholesterol and fatty acyl-COA, and are also involved in regulating the concentration of cellular free sterols. The murine acyl coenzyme A
                                                                                                                                                                                              New antisense oligonucleotides targeted to a nucleic acid encoding ac coenzyme A cholesterol acyltransferase-1, useful for treating a disease/condition involving abnormal lipid or cholesterol metabolism,
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                                                                                                                            Sequences ABZ74897-ABZ74942 represent antisense oligonucleotides targeted
                                                                                                                                                       Claim 3; Page 92; 117pp;
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/note= "2'-methoxyethyl (2'-MOE)
cytosines are 5-methylcytosine"
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ADF87702
                                           The invention relates to a novel polynucleotide isolated and purified from a human gene having any one of 935 fully defined sequences as given in specification, or a sequence having a base substitution. The invention further relates to: an oligonucleotide containing single nucleotide polymorphisms; a PCR primer set chosen from the combination of two DNA fragments from any one of 1220 fully defined sequences as given in generification; a labelling probe containing the SNP containing oligo; and a microarray equipped with the SNP containing the single nucleotide gene of the invention is useful for detecting the single nucleotide polymorphisms in human gene. The isolated human gene is also useful for diagnosis of disease and determination of side effect to a medical agent. The isolated human gene is also effective in detecting single nucleotide polymorphisms in a human gene. This polynucleotide sequence represents one of the PCR primers used in the single nucleotide polymorphism
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                                                                                                                                                                                                                                                                                                                   Claim 2; SEQ ID NO 1285; 704pp; Japanese
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primer; PCR.
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                                                                                                                                                                                                                                                                                                                                                                      Novel polynucleotide useful for detecting single nucleotide polymorphisms
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Query Match Best Local Similarity Thes 15; Conserve

Conservative

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Score 13.2; DB 1; Pred. No. 1.7e+03; 0; Mismatches 3;

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